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Water Resources Data for Alaska

Part 1. Surface Water Records

Part 2. Water Quality Records

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the State of Alaska
and with other agencies

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
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NOVEMBER 1970

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DECEMBER 1970

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JANUARY 1971

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31						

FEBRUARY 1971

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28						

MARCH 1971

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APRIL 1971

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MAY 1971

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JUNE 1971

S	M	T	W	T	F	S
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JULY 1971

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1971

S	M	T	W	T	F	S
1	2	3	4	5	6	7
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

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5	6	7	8	9	10	11
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1971

Water Resources Data for Alaska

Part 1. Surface Water Records

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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WATER RESOURCES DATA FOR ALASKA, 1971

Part 1. Surface-Water Records
Part 2. Water-Quality Records

INTRODUCTION

Water resources data for the 1971 water year for Alaska including records of streamflow at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Locations of stations are shown in Figure 1. In Part I, records are included for 129 gaging stations of which 127 are streamflow discharge stations, 1 stage only streamflow station, and 1 lake stage station; also records are included for 104 crest-stage partial-record stations and 67 miscellaneous sites. In Part 2, data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites temperature data were recorded continuously or on punched paper tape at 60-minute intervals. Records are given for 203 sampling stations of which 22 are continuous record stations and 181 are miscellaneous sites. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Harry Hulsing, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and stage of streams, contents and stage of lakes, chemical quality, water temperature, and suspended sediment are published in U.S. Geological Survey water-supply papers (WSPs). Through September 30, 1960, these data were published in a series of WSPs entitled, "Quantity and Quality of Surface Waters of Alaska" (through 1950, 1951-53, 1954-56, 1957, 1958, 1959, 1960). Since 1960, streamflow records and related data are in a 5-year series of

WSPs entitled, "Surface Water Supply of the United States, Part 15, Alaska." Water quality records were published in a WSP as "Quality of Surface Waters of Alaska, 1961-63" and after then are in an annual series of WSPs entitled, "Quality of Surface Waters of the United States." More information is given under the heading "Publications" on pages 14 and 18.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alaska have had cooperative agreements for the systematic collection of streamflow and water-quality records since 1958. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Alaska Department of Highways in cooperation with the Federal Highway Administration, U.S. Department of Transportation, Bruce A. Campbell, commissioner.

Alaska Department of Natural Resources, Charles F. Herbert, commissioner.

Alaska Department of Environmental Conservation, Max C. Brewer, commissioner.

Alaska Department of Health and Welfare, Fred P. McGinnis, commissioner.

Alaska Department of Public Works, George F. Easely, commissioner.

Greater Anchorage Area Borough Assembly, John M. Asplund, chairman.

City and Borough of Juneau, Joseph A. McLean, mayor.

Kenai Peninsula Borough, George A. Navarre, chairman.

City of Anchorage, George M. Sullivan, mayor.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; U.S. Army; Alaskan Air Command, U.S. Air Force; U.S. Air Force; Atomic Energy Commission; Forest Service, U.S. Department of Agriculture; Public Health Service, U.S. Department of Health, Education and Welfare; Alaska Power Administration, Bureau of Indian Affairs, National Marine Fisheries Service, U.S. Department of Interior.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Bed material is the shifting portion of fragmented material of which the stream is composed.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute..

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (µg/l, UG/L) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, page 5.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter.

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})*....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in parts per million to milligrams per liter.* (All values calculated to three significant figures)

Range of concentration (ppm)	Multiply by	Range of concentration (ppm)	Multiply by
0 - 15,900	1.00	322,000 - 341,000	1.26
16,000 - 46,800	1.02	342,000 - 361,000	1.28
46,900 - 76,500	1.04	362,000 - 380,000	1.30
76,600 - 105,000	1.06	381,000 - 399,000	1.32
106,000 - 133,000	1.08	400,000 - 416,000	1.34
134,000 - 159,000	1.10	417,000 - 434,000	1.36
160,000 - 185,000	1.12	435,000 - 451,000	1.38
186,000 - 210,000	1.14	452,000 - 467,000	1.40
211,000 - 233,000	1.16	468,000 - 483,000	1.42
234,000 - 256,000	1.18	484,000 - 498,000	1.44
257,000 - 279,000	1.20	499,000 - 514,000	1.46
280,000 - 300,000	1.22	515,000 - 528,000	1.48
301,000 - 321,000	1.24	529,000 - 542,000	1.50

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027. (Tons/day.)

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water, per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Turbidity of water is a measure of the reduction of transparency due to the presence of suspended particulate matter and is expressed in Jackson turbidity units.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAM

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report, the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 15303600, which appears just to the left of the station name includes the 2-digit part number "15" plus the 6-digit downstream order number "303600."

PART 1. SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and stage of lakes. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed

from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge, general remarks, and notations of revisions of previously

published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge and the maximum gage height, the minimum discharge if there is little or no regulation and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if the minimum discharge cannot be determined. In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record": the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been

published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge

for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

Data collected at partial-record stations and miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Publications

In each water-supply paper containing streamflow data for Alaska there is a list of numbers of preceding water-supply papers. Records for stations in Alaska for the period October 1960 to September 1965 are in Water-Supply Paper 1936.

Two summary reports of the surface-water supply of Alaska have been published; the first covers the entire period of record through September 1950 and the second covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in prior water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Alaska are compiled in Water-Supply Paper 1372 through September 1950, and in 1740 for October 1950 to September 1960.

Information relative to special reports and outstanding floods in Alaska may be obtained from the District office. Special flood reports include:

Childers, J.M., and Meckel, J.P., 1967, Flood of August 1967 at Fairbanks, Alaska: U.S. Geol. Survey Hydrol. Inv. Atlas HA-294.

Childers, J.M., Meckel, J.P., and Anderson, G.S., 1972, Floods of August 1967 in east-central Alaska: U.S. Geol. Survey Water-Supply Paper 1880-A, 77 p.

Lamke, R.D., 1972, Floods of the summer of 1971 in south-central Alaska: U.S. Geol. Survey open-file report, 88 p.

Post, Austin, and Mayo, L.R., 1971, Glacier dammed lakes and outburst floods in Alaska: U.S. Geol. Survey Hydrol. Inv. Atlas HA-455.

Special reports and additional unpublished data from statistical analyses of Alaska surface-water records are available from the district chief, Water Resources Division, in Anchorage. Special analytical reports include:

Childers, J.M., 1970, Flood frequency in Alaska: U.S. Geol. Survey open-file report, 30 p.

_____1970, A proposed streamflow data program in Alaska: U.S. Geol. Survey open-file report, 55 p.

Feulner, A.J., Childers, J.M., Norman, V.W., 1971, Water resources of Alaska: U.S. Geol. Survey open-file report, 60 p.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the District office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

PART 2. WATER QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations, located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 3 below.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 4.)

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge

times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included. Also, specific conductance is included for most samples and turbidity for some samples.

Publications

The water-supply papers that contain information on quality of surface waters in Alaska are listed below.

Water year(s)	WSP No.	Water year(s)	WSP No.
1948-50	1372	1964	1959
1951-53	1466	1965	1966
1954-56	1486	1966	1996
1957	1500	1967	A2016
1958	1570	1968	A2100
1959	1640	1969	A2150
1960	1720	1970	A2160
1961-63	1953		

A In press

HYDROLOGIC CONDITIONS

Streamflow was average for the water year in most of Alaska except for below average flows in southeast Alaska and for above average flows in many streams in south-central Alaska, Kodiak Island, and near Fairbanks. Also, significant fluctuations, above and below average, in the monthly streamflow totals occurred because of vagaries in the climatic factors of temperature and precipitation.

Streamflow was normal during October and November except for late October and early November when heavy rains caused high flows in areas near the Gulf of Alaska from Anchorage to Kodiak Island.

The winter was longer and colder than normal. Snowfall near and south of Fairbanks was heavy. Fairbanks had an accumulation of 144 inches (water equivalent, 8.2 inches) through March, and snow cover was about 150 percent of average along the Alaska Range on May 1.

Low temperatures in the spring delayed breakup and the beginning of snowmelt. Streamflow was also below normal in April and May in southeastern Alaska. Snowmelt was well distributed throughout the period and little excessive flooding occurred. However, ice jams on the Kobuk, Kuskokwim, and Yukon Rivers caused flooding and excessive damage. Villagers at Kobuk, Aniak, and Galena were evacuated. Snowmelt floods occurred in mid-July along the lower Copper River.

A major flood occurred in south-central Alaska on August 8-11. Precipitation totals of 3 to 9 inches during August 5-11 were recorded in an area extending northeastward from Iliamna Lake to Palmer, Talkeetna, and Paxson Lake. The principal flood areas were the upper Copper, Matanuska, Susitna, Chakachatna, and Kvichak River basins. An open-file report (Lamke, 1972) presents a more detailed description of the flood and additional flood data.

Streamflow in the rest of Alaska receded in the normal seasonal pattern during August and September.

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Corbett, D. M., and others, 1943, reprinted 1957, Stream-gaging procedures, a manual describing methods and practices of the Geological Survey: U.S. Geol. Survey Water-Supply Paper 888, 245 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water - Revised edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Porterfield, George, 1972, Computations of fluvial sediment discharges: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 179 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

_____1941, Methods of analyzing sediment samples: Rept. 4.

_____1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.

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_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

_____1961, The single stage sampler for suspended sediment: Rept. 13.

_____1963, Determinations of fluvial sediment discharge: Rept. 14.

PART 1. SURFACE WATER RECORDS

15008000 Salmon River near Hyder

LOCATION.--Lat 56°01'34", long 130°03'55", in South Tongass National Forest, on left bank at old bridge site, 1,000 ft upstream from Texas Creek, 7.8 miles north of Hyder, and 9.0 miles upstream from mouth at Portland Canal.

DRAINAGE AREA.--94.0 sq mi, approximately.

PERIOD OF RECORD.--August 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 295 ft (from topographic map). Prior to Mar. 30, 1968, on right bank at same datum. Apr. 1 to July 16, 1968, nonrecording gage on left bank at same site and datum.

AVERAGE DISCHARGE.--8 years, 1,064 cfs (153.72 inches per year, 770,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 140,000 cfs Aug. 30 (gage height, 28.9 ft), from partial measurements of flow near peak stage; minimum daily, 28 cfs Feb. 26 to Mar. 25.

Period of record: Maximum discharge, 140,000 cfs Aug. 30, 1971 (gage height, 28.9 ft), from partial measurements of flow near peak stage; maximum gage height, 28.97 ft Sept. 17, 1967; minimum daily discharge, 13 cfs Jan. 10, 11, 1966.

REMARKS.--Records fair except those for winter periods, which are poor. Large diurnal fluctuations caused by glacier melt at source. Peak flow of record resulted from breakout of glacier-dammed lake. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,380	434	60	44	32	28	42	197	627	1,230	3,450	4,860
2	1,910	389	60	44	32	28	46	196	716	1,230	3,450	3,670
3	2,080	304	60	46	32	28	50	216	763	1,190	3,450	4,870
4	2,010	240	55	46	32	28	60	248	850	1,290	2,850	6,060
5	1,330	194	55	46	32	28	75	235	951	1,290	2,850	3,790
6	964	176	55	50	30	28	100	218	1,070	1,300	2,300	2,630
7	781	158	55	50	30	28	110	372	1,310	1,610	2,300	2,690
8	740	143	55	55	30	28	100	263	1,470	1,950	2,300	2,420
9	710	134	55	55	30	28	95	203	1,430	2,240	2,300	1,740
10	730	122	55	55	30	28	95	194	1,490	2,190	2,850	1,520
11	770	122	55	55	30	28	95	214	1,330	1,920	2,850	1,450
12	661	122	60	55	30	28	100	296	1,160	1,890	2,850	1,630
13	652	120	60	55	30	28	100	243	1,100	1,870	2,850	1,600
14	634	118	60	55	30	28	110	186	1,010	2,050	2,300	1,230
15	553	108	60	55	30	28	110	177	974	1,870	2,050	1,140
16	526	102	60	50	30	28	110	137	1,010	1,910	2,050	1,100
17	490	98	60	48	30	28	110	159	1,140	2,110	2,050	1,090
18	598	98	60	48	30	28	110	296	1,520	2,450	2,300	1,270
19	607	88	60	46	30	28	110	345	1,770	2,480	3,150	1,560
20	490	78	60	44	30	28	120	338	1,810	2,610	4,100	1,750
21	396	75	55	44	30	28	120	364	2,020	2,720	3,750	1,880
22	354	75	55	40	30	28	120	405	2,240	2,790	3,150	1,890
23	310	70	50	40	30	28	120	466	3,180	2,550	3,150	1,720
24	292	70	50	38	30	28	124	495	2,780	2,340	3,450	1,370
25	272	65	48	38	30	28	151	467	2,520	2,330	3,150	1,240
26	246	65	48	36	28	30	222	471	1,960	2,790	3,750	1,070
27	245	65	48	36	28	30	257	436	1,620	3,230	6,200	936
28	279	65	46	34	28	32	233	478	1,450	3,340	12,800	799
29	949	60	46	34	------	34	200	488	1,390	3,290	44,200	664
30	1,020	60	46	34	------	36	197	501	1,280	3,290	64,600	578
31	786	------	44	34	------	40	------	519	------	3,290	4,120	------
TOTAL	24,765	4,018	1,696	1,410	844	902	3,592	9,823	43,941	68,640	206,970	60,217
MEAN	799	134	54.7	45.5	30.1	29.1	120	317	1,465	2,214	6,676	2,007
MAX	2,380	434	60	55	32	40	257	519	3,180	3,340	64,600	6,060
MIN	245	60	44	34	28	28	42	137	627	1,190	2,050	578
CFSM	8.50	1.43	.58	.48	.32	.31	1.28	3.37	15.6	23.6	71.0	21.4
IN.	9.80	1.59	.67	.56	.33	.36	1.42	3.89	17.39	27.16	81.91	23.83
AC-FT	49,120	7,970	3,360	2,800	1,670	1,790	7,120	19,480	87,160	136,100	410,500	119,400

CAL YR 1970 TOTAL 362,660 MEAN 994 MAX 48,000 MIN 44 CFSM 10.6 IN 143.52 AC-FT 719,300
WTR YR 1971 TOTAL 426,818 MEAN 1,169 MAX 64,600 MIN 28 CFSM 12.4 IN 168.91 AC-FT 846,600

15011500 Red River near Metlakatla

LOCATION.--Lat 55°08'29", long 130°31'50", in Tongass National Forest, on left bank, 0.2 mile upstream from mouth at northeast end of Marten Arm of Boca De Quadra, and 41 miles east of Metlakatla.

DRAINAGE AREA.--45.3 sq mi.

PERIOD OF RECORD.--August 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 5 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 598 cfs (179.27 inches per year, 433,300 acre-ft per year).

EXTREMES.--Current year: Maximum diacharge, 6,000 cfa Sept. 13 (gage height, 8.55 ft), from rating curve extended above 1,300 cfs; minimum daily, 45 cfa Feb. 5-7.
Period of record: Maximum diacharge, 11,700 cfs Dec. 31, 1963 (gage height, 10.66 ft), from rating curve extended above 1,300 cfs; minimum daily, 21 cfa Jan. 11, 1966.

REMARKS.--Records good except those for winter perioda and thoae for the period of no gage-height record, which are poor. Recorda of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaaka, 1970: 1964 (M).

DISCHARGE, IN CUBIC FEET PER SECONO, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	376	100	85	50	90	214	640	994	684	291	270
2	354	270	100	85	50	100	386	525	1,110	456	377	261
3	468	208	100	85	48	130	378	575	945	408	322	1,510
4	1,160	170	100	90	48	80	546	605	924	610	246	1,240
5	396	146	100	100	45	80	740	620	1,030	512	198	1,280
6	264	128	100	120	45	80	620	595	1,090	494	168	988
7	325	112	110	130	45	80	455	1,680	1,210	590	160	1,910
8	760	104	130	120	48	80	324	820	1,110	762	145	2,060
9	416	100	150	110	50	95	258	460	959	875	148	1,240
10	770	506	170	100	55	110	208	435	1,110	754	162	772
11	585	844	170	95	70	110	220	672	1,410	700	156	2,240
12	456	1,080	160	90	90	95	218	1,100	1,040	566	143	4,180
13	400	420	140	85	150	90	222	928	832	476	132	3,280
14	306	372	140	80	190	85	517	665	730	476	121	855
15	307	276	130	75	210	80	382	516	832	448	123	464
16	420	212	120	70	170	75	243	480	760	428	134	330
17	1,150	454	110	70	130	70	220	440	712	480	221	258
18	1,390	391	110	70	100	70	349	556	959	605	441	218
19	1,570	300	100	65	100	65	444	660	1,020	615	2,950	192
20	552	250	100	65	100	65	543	548	980	530	1,230	168
21	432	220	100	60	130	65	355	665	969	489	2,020	154
22	507	200	100	60	210	60	249	742	1,090	448	948	143
23	444	180	95	60	180	60	264	1,190	1,780	390	2,810	136
24	420	160	90	55	130	60	285	1,200	861	348	2,640	130
25	294	150	90	55	110	60	337	832	994	354	1,640	118
26	255	140	90	55	100	63	724	724	698	386	885	104
27	1,040	130	90	55	90	61	716	590	566	420	444	103
28	1,130	120	90	50	90	115	476	700	580	416	387	109
29	1,750	110	90	50	------	267	379	700	681	372	348	92
30	694	110	90	50	------	143	510	650	754	348	267	85
31	400	------	85	50	------	108	------	754	------	312	338	------
TOTAL	20,015	8,239	3,450	2,390	2,834	2,792	11,782	22,267	28,730	15,752	20,595	24,890
MEAN	646	275	111	77.1	101	90.1	393	718	958	508	664	830
MAX	1,750	1,080	170	130	210	267	740	1,680	1,780	875	2,950	4,180
MIN	255	100	85	50	45	60	208	435	566	312	121	85
CFSM	14.3	6.07	2.45	1.70	2.23	1.99	8.68	15.8	21.1	11.2	14.7	18.3
IN.	16.44	6.77	2.83	1.96	2.33	2.29	9.68	18.29	23.59	12.94	16.91	20.44
AC-FT	39,700	16,340	6,840	4,740	5,620	5,540	23,370	44,170	56,990	31,240	40,850	49,370

CAL YR 1970 TOTAL 195,400 MEAN 535 MAX 3,380 MIN 40 CFSM 11.8 IN 160.46 AC-FT 387,600
WTR YR 1971 TOTAL 163,736 MEAN 449 MAX 4,180 MIN 45 CFSM 9.91 IN 134.46 AC-FT 324,800

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-13	0530	8.55	6,000				

NOTE.--No gage-height record Nov. 21 to Jan. 30.

15012000 Winstanley Creek near Ketchikan

LOCATION.--Lat 55°25'00", long 130°52'05", in Tongass National Forest, on right bank, 0.3 mile downstream from Lower Winstanley Lake, 1.1 miles upstream from mouth at East Behm Canal, and 31 miles east of Ketchikan.

DRAINAGE AREA.--15.5 sq mi.

PERIOD OF RECORD.--August 1936 to September 1938 (monthly discharge only, published in WSP 1372), August 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 290 ft (by barometer).

AVERAGE DISCHARGE.--26 years, 159 cfs (139.30 inches per year, 115,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 886 cfs Sept. 13 (gage height, 3.78 ft); minimum daily, 15 cfs Dec. 8.
Period of record: Maximum discharge, 4,120 cfs Jan. 30, 1962 (gage height, 6.65 ft), from rating curve extended above 1,200 cfs; minimum, 4.2 cfs Jan. 12, 1966 and Feb. 25, 1969.

REMARKS.-- Records good except those for winter periods and those for periods of no gage-height record, which are fair. Upper and Lower Winstanley Lakes above the gage have areas of 465 and 175 acres, respectively. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	274	25	28	78	84	46	130	185	180	71	132
2	267	212	23	28	79	59	80	120	206	172	72	125
3	252	161	21	27	71	58	95	120	217	154	77	175
4	411	128	21	23	54	53	130	120	215	151	81	287
5	324	106	20	26	55	48	150	120	220	155	80	409
6	237	89	16	57	50	47	160	120	233	147	73	383
7	189	75	16	303	41	55	170	180	247	140	66	347
8	189	64	15	471	36	49	150	200	263	141	60	355
9	183	57	17	329	33	53	130	210	253	154	54	297
10	174	54	22	229	46	65	113	160	254	171	49	245
11	168	62	25	164	62	63	90	140	264	166	45	267
12	152	79	36	124	185	61	80	140	273	156	41	419
13	142	91	50	99	233	64	75	160	248	142	38	801
14	136	90	57	81	248	58	85	170	230	131	35	504
15	124	87	55	66	247	54	95	150	222	122	33	311
16	136	82	51	55	260	49	90	130	215	114	33	219
17	168	105	46	50	182	44	80	130	205	109	38	158
18	273	118	44	109	143	40	90	140	206	108	49	123
19	324	130	40	153	118	40	100	144	224	111	129	102
20	270	120	36	155	103	38	110	144	244	113	211	85
21	219	100	34	155	106	34	110	142	257	111	223	72
22	186	80	30	112	114	29	100	151	253	107	234	59
23	160	70	28	91	137	28	85	183	327	103	239	51
24	152	55	26	91	130	26	80	245	364	97	299	45
25	134	50	35	91	115	26	75	240	299	91	335	39
26	120	44	37	61	98	24	80	222	263	86	301	34
27	138	38	37	58	91	24	90	203	224	83	238	30
28	199	36	34	94	91	24	110	188	195	82	183	27
29	467	32	32	97	------	30	110	190	176	81	145	24
30	622	29	31	93	------	36	120	181	170	79	120	21
31	374	------	30	76	------	36	------	173	------	75	115	------
TOTAL	7,228	2,718	990	3,596	3,206	1,399	3,079	5,046	7,152	3,832	3,767	6,146
MEAN	233	90.6	31.9	116	115	45.1	103	163	238	124	122	205
MAX	622	274	57	471	260	84	170	245	364	180	335	801
MIN	120	29	15	23	33	24	46	120	170	75	33	21
CFSM	15.0	5.85	2.06	7.48	7.42	2.91	6.65	10.5	15.4	8.00	7.87	13.2
IN.	17.35	6.52	2.38	8.63	7.69	3.36	7.39	12.11	17.16	9.20	9.04	14.75
AC-FT	14,340	5,390	1,960	7,130	6,360	2,770	6,110	10,010	14,190	7,600	7,470	12,190

CAL YR 1970	TOTAL 55,807	MEAN 153	MAX 733	MIN 15	CFSM 9.87	IN 133.90	AC-FT 110,700
WTR YR 1971	TOTAL 48,159	MEAN 132	MAX 801	MIN 15	CFSM 8.52	IN 115.58	AC-FT 95,520

PEAK DISCHARGE (BASE, 650 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-29	2245	3.55	760	9-13	0800	3.78	886

NOTE.--No gage-height record Mar. 24 to May 18.

15015600 Klahini River near Bell Island

LOCATION.--Lat 56°03'15", long 131°02'55", in Tongass National Forest, on left bank 0.4 mile upstream from mouth at Burroughs Bay, 0.8 mile downstream from unnamed tributary and 22 miles northeast of Bell Island.

DRAINAGE AREA.--58.0 sq mi.

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about 4 ft above mean sea level (from topographic map and tidal observations).

EXTREMES.--Current year: Maximum discharge recorded, 8,520 cfs Oct. 29 (gage height, 7.45 ft), from rating curve extended above 3,000 cfs; minimum daily, 47 cfs Mar. 7-15.
Period of record: Maximum discharge, 12,400 cfs Nov. 1, 1969 (gage height, 8.95 ft), from rating curve extended above 3,000 cfs; minimum daily, 25 cfs Jan. 25 to Feb. 10, 1969.

REMARKS.--Records fair except those for winter periods, which are poor. Large diurnal fluctuations are caused by glacier melt at source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,230	1,130	120	101	58	48	76	279	1,000	726	764	793
2	642	666	119	102	58	48	97	252	1,120	696	1,000	510
3	1,590	460	119	103	57	48	104	311	994	602	744	2,280
4	1,230	335	120	104	56	48	175	384	970	714	586	2,990
5	636	267	121	110	56	48	202	371	1,250	946	575	1,560
6	398	227	122	122	55	48	340	380	1,330	778	485	808
7	376	205	131	131	55	47	238	1,260	1,670	962	520	1,520
8	510	185	145	135	54	47	150	672	1,620	1,080	450	726
9	416	172	155	134	54	47	122	366	1,280	1,190	416	560
10	806	298	162	125	53	47	102	287	1,420	1,030	455	994
11	648	726	161	115	52	47	95	409	1,210	906	465	1,840
12	500	614	155	109	52	47	100	802	938	946	425	1,130
13	510	430	145	100	52	47	110	746	841	806	402	1,000
14	425	648	138	94	51	47	242	525	855	806	394	900
15	366	380	130	91	51	47	175	398	862	732	440	800
16	435	275	125	86	51	48	132	358	827	708	420	700
17	1,030	283	120	83	50	48	98	327	986	785	470	600
18	1,020	230	118	82	50	48	124	398	1,320	962	550	500
19	1,040	196	114	79	50	48	132	515	1,630	986	2,690	500
20	520	205	110	76	49	48	155	465	1,590	954	1,420	500
21	380	170	108	74	49	49	150	565	1,780	962	1,690	400
22	394	155	105	71	49	49	132	592	1,540	898	1,080	400
23	384	148	104	70	48	50	145	1,030	2,440	744	1,480	400
24	331	140	103	67	48	50	160	1,060	1,480	630	2,680	300
25	271	132	102	66	48	55	202	785	1,070	650	1,250	300
26	238	129	101	64	48	60	380	764	922	764	757	200
27	465	128	101	63	48	60	435	636	778	898	470	200
28	857	125	100	62	48	60	295	714	744	883	358	100
29	4,570	122	100	61	------	68	220	714	720	848	366	100
30	1,440	120	100	60	------	58	234	602	702	792	362	70
31	764	------	100	60	------	55	------	690	------	778	631	------
TOTAL	24,422	9,301	3,754	2,800	1,450	1,565	5,322	17,657	35,889	26,162	24,795	23,681
MEAN	788	310	121	90.3	51.8	50.5	177	570	1,196	844	800	789
MAX	4,570	1,130	162	135	58	68	435	1,260	2,440	1,190	2,690	2,990
MIN	238	120	100	60	48	47	76	252	702	602	358	70
CFSM	13.6	5.34	2.09	1.56	.89	.87	3.05	9.83	20.6	14.6	13.8	13.6
IN.	15.66	5.97	2.41	1.80	.93	1.00	3.41	11.32	23.02	16.78	15.90	15.19
AC-FT	48,440	18,450	7,450	5,550	2,880	3,100	10,560	35,020	71,190	51,890	49,180	46,970

CAL YR 1970 TOTAL 201,313 MEAN 552 MAX 4,920 MIN 69 CFSM 9.52 IN 129.12 AC-FT 399,300
WTR YR 1971 TOTAL 176,798 MEAN 484 MAX 4,570 MIN 47 CFSM 8.34 IN 113.39 AC-FT 350,700

NOTE.--No gage-height record Nov. 21, 1970 to Jan. 9, 1971.

15022000 Harding River near Wrangell
(Hydrologic bench-mark station)

LOCATION.--Lat 56°12'50", long 131°38'14", in Tongass National Forest, on right bank 1 mile upstream from mouth on north shore of Bradfield Canal, 4 miles downstream from Fall Lake, and 34 miles southeast of Wrangell.

DRAINAGE AREA.--67.4 sq mi.

PERIOD OF RECORD.--August 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (by barometer).

AVERAGE DISCHARGE.--20 years, 740 cfs (149.10 inches per year, 536,000 acre-ft per year).

EXTREMES.—Current year: Maximum discharge, 6,050 cfs Oct. 29 (gage height, 11.08 ft); minimum daily, 70 cfs Feb. 5-14.
Period of record: Maximum discharge, 15,000 cfs Oct. 14, 1961 (gage height, 16.22 ft) from rating curve extended above 5,000 cfs; minimum not determined.

REMARKS.--Records good except those for winter periods, which are poor. Some diurnal fluctuation caused by glacier melt at source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,790	1,580	240	180	75	95	100	374	1,040	1,120	1,380	846
2	1,080	1,020	230	180	75	95	100	373	1,280	1,240	1,680	920
3	2,130	695	220	180	75	90	110	407	1,160	1,010	1,780	985
4	1,530	499	220	180	75	88	120	537	1,060	960	1,150	1,830
5	813	379	210	200	70	85	150	484	1,200	1,250	1,070	1,860
6	535	310	210	250	70	80	170	491	1,470	1,100	911	1,710
7	452	274	210	260	70	80	250	1,700	1,770	1,270	1,060	1,660
8	495	244	220	250	70	80	170	1,030	1,940	1,410	1,130	1,750
9	457	222	250	230	70	80	160	576	1,500	1,700	893	1,350
10	827	200	300	220	70	80	150	468	1,580	1,610	916	1,060
11	778	600	320	200	70	78	150	551	1,540	1,330	928	1,120
12	792	1,500	350	180	70	78	150	939	1,330	1,330	870	1,240
13	1,150	1,600	330	160	70	76	160	1,080	1,110	1,230	816	1,390
14	842	1,100	300	150	70	74	180	769	1,090	1,240	747	1,320
15	623	800	270	140	75	74	250	586	1,120	1,150	1,050	934
16	832	600	250	140	80	74	190	524	1,160	1,030	994	688
17	718	500	240	130	80	74	180	468	1,220	1,120	988	628
18	946	600	230	120	85	74	190	525	1,440	1,330	1,010	628
19	892	700	220	110	90	72	190	696	1,670	1,350	2,930	636
20	659	600	210	110	95	72	200	595	1,780	1,380	2,320	639
21	462	500	210	110	95	72	237	722	1,680	1,390	1,730	604
22	427	450	210	100	100	75	204	799	1,680	1,330	2,050	566
23	428	400	200	100	100	75	227	1,200	2,650	1,170	2,070	525
24	425	370	200	95	110	80	251	1,380	2,400	973	2,510	484
25	368	340	190	95	110	80	288	1,010	1,640	1,010	2,000	438
26	316	300	190	95	110	80	385	948	1,380	1,220	1,600	383
27	410	290	190	90	100	82	481	857	1,210	1,450	1,050	340
28	749	280	190	90	100	85	390	887	1,060	1,490	781	306
29	3,280	270	180	85	------	85	324	1,030	1,130	1,410	692	271
30	1,890	250	180	80	------	90	325	849	1,150	1,320	692	250
31	1,040	------	180	80	------	95	------	794	------	1,330	713	------
TOTAL	28,136	17,473	7,150	4,590	2,330	2,498	6,432	23,649	43,440	39,253	40,511	27,361
MEAN	908	582	231	148	83.2	80.6	214	763	1,448	1,266	1,307	912
MAX	3,280	1,600	350	260	110	95	481	1,700	2,650	1,700	2,930	1,860
MIN	316	200	180	80	70	72	100	373	1,040	960	692	250
CFSM	13.5	8.64	3.43	2.20	1.23	1.20	3.18	11.3	21.5	18.8	19.4	13.5
IN.	15.53	9.64	3.95	2.53	1.29	1.38	3.55	13.05	23.98	21.66	22.36	15.10
AC-FT	55,810	34,660	14,180	9,100	4,620	4,950	12,760	46,910	86,160	77,860	80,350	54,270

CAL YR 1970 TOTAL 276,665 MEAN 758 MAX 5,420 MIN 80 CFSM 11.2 IN 152.70 AC-FT 548,800
WTR YR 1971 TOTAL 242,823 MEAN 665 MAX 3,280 MIN 70 CFSM 9.87 IN 134.02 AC-FT 481,600

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-29	1645	11.08	6,050	8-19	2215	9.99	4,580

NOTE.--No gage-height record Nov. 11 to Jan. 9

15026000 Cascade Creek near Petersburg

LOCATION.--Lat 57°00'21", long 132°46'45", in Tongass National Forest, on right bank 0.25 mile upstream from mouth on east shore of south arm of Thomas Bay 2.75 miles downstream from Swan Lake, and 15 miles northeast of Petersburg.

DRAINAGE AREA.--23.0 sq mi.

PERIOD OF RECORD.--October 1917 to November 1928 (monthly discharge only, published in WSP 1372), October 1946 to current year. Prior to October 1920, published as "at Thomas Bay near Petersburg".

GAGE.--Water-stage recorder. Altitude of gage is 120 ft (by barometer). Prior to October 1946 at different datum.

AVERAGE DISCHARGE.--36 years, 250 cfs (147.61 inches per year, 181,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,270 cfs Aug. 24 (gage height, 6.64 ft); minimum daily, 28 cfs Mar. 19-31.
Period of record: Maximum discharge, 3,280 cfs Sept. 11, 1947 (gage height, 10.0 ft from floodmarks), from rating curve extended above 920 cfs; minimum, 11 cfs at times during several years.

REMARKS.--Records poor. Swan Lake, at elevation of about 1,500 ft, has an area of 614 acres and a drainage area of 18.9 sq mi. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	838	496	64	32	32	38	30	66	312	447	512	400
2	620	447	60	32	32	38	30	59	317	437	649	450
3	732	364	55	32	32	36	32	70	327	397	766	500
4	572	291	55	34	30	36	36	76	336	400	607	600
5	424	229	55	40	30	36	40	67	375	402	486	700
6	320	187	55	75	30	34	46	96	445	418	420	600
7	272	166	55	160	30	34	42	181	542	455	478	650
8	228	149	55	110	30	34	38	99	601	503	457	442
9	196	134	55	90	30	32	36	93	588	582	417	390
10	246	135	60	80	30	32	36	122	581	589	412	332
11	283	168	60	75	30	32	36	233	581	534	401	333
12	289	276	60	70	32	30	38	322	526	503	388	338
13	321	218	55	65	32	30	42	330	463	485	375	446
14	291	207	50	60	32	30	50	295	438	497	377	399
15	315	211	46	55	32	30	44	267	434	517	363	331
16	321	179	42	55	32	30	40	232	451	591	403	258
17	260	173	40	50	32	30	38	209	505	607	408	232
18	240	154	38	48	34	30	36	205	546	565	409	315
19	289	138	36	46	34	28	36	225	568	528	632	396
20	225	120	36	44	34	28	36	196	592	524	731	326
21	187	108	34	42	36	28	36	239	581	551	622	281
22	179	101	34	40	38	28	38	243	592	533	784	251
23	174	97	34	38	40	28	43	317	872	485	956	225
24	166	91	34	36	44	28	46	340	878	438	1,140	204
25	150	85	34	36	44	28	54	330	711	426	893	181
26	141	82	32	36	44	28	68	321	644	466	684	163
27	172	78	32	34	44	28	66	301	570	531	542	147
28	235	74	32	34	42	28	59	310	515	566	450	133
29	484	71	32	34	------	28	52	316	496	556	350	119
30	491	68	32	32	------	28	58	280	457	528	300	113
31	446	------	32	32	------	28	------	281	------	514	350	------
TOTAL	10,107	5,297	1,394	1,647	962	956	1,282	6,721	15,844	15,575	16,762	10,255
MEAN	326	177	45.0	53.1	34.4	30.8	42.7	217	528	502	541	342
MAX	838	496	64	160	44	38	68	340	878	607	1,140	700
MIN	141	68	32	32	30	28	30	59	312	397	300	113
CFSM	14.2	7.70	1.96	2.31	1.50	1.34	1.86	9.43	23.0	21.8	23.5	14.9
IN.	16.35	8.57	2.25	2.66	1.56	1.55	2.07	10.87	25.63	25.19	27.11	16.59
AC-FT	20,050	10,510	2,770	3,270	1,910	1,900	2,540	13,330	31,430	30,890	33,250	20,340

CAL YR 1970 TOTAL 93,387 MEAN 256 MAX 1,300 MIN 31 CFSM 11.1 IN 151.04 AC-FT 185,200
WTR YR 1971 TOTAL 86,802 MEAN 238 MAX 1,140 MIN 28 CFSM 10.3 IN 140.39 AC-FT 172,200

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
8-24	1045	6.64	1,270				

NOTE.--No gage-height record Jan. 20 to Mar. 19.

15031000 Long River above Long Lake near Juneau

LOCATION.--Lat 58°10'56", long 133°53'06", in NE¼SE¼ sec.36, T.42 S., R.70 E., in North Tongass National Forest, on left bank 3 miles upstream from mouth at Long Lake and 20 miles southeast of Juneau.

DRAINAGE AREA.--8.29 sq mi.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 980 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 117 cfs (191.66 inches per year, 84,770 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,710 cfs on Aug. 8 (gage height, 13.99 ft); minimum daily, 2.0 cfs Jan. 9-31.
Period of record: Maximum discharge, 3,530 cfs Sept. 28, 1968 (gage height, 15.05 ft), from rating curve extended above 950 cfs but may have been higher during missing record Sept. 28, 1970; minimum daily, 0.40 cfs Jan. 29 to Feb. 9, Feb. 25 to Mar. 2, Mar. 18-22, 1969.

REMARKS.--Records poor. Streamflow affected by large diurnal fluctuations caused by glacier melt at source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	360	26	10	2.8	3.0	4.0	4.0	14	149	199	335	314
2	300	185	9.7	2.5	3.0	4.0	6.0	15	147	207	530	286
3	260	157	8.6	2.4	3.0	4.0	12	24	130	201	381	393
4	160	148	7.6	2.4	3.0	4.0	20	40	145	196	254	335
5	120	137	7.3	2.4	3.0	4.0	70	28	182	201	233	417
6	110	79	6.9	2.4	3.0	4.0	26	28	237	235	227	441
7	100	61	6.3	2.1	3.0	4.0	22	60	251	235	310	338
8	90	45	6.1	2.1	3.0	4.0	20	100	244	235	275	342
9	80	33	5.8	2.0	3.0	4.0	18	70	244	235	230	233
10	90	26	5.3	2.0	3.0	4.0	18	70	224	235	230	174
11	130	23	4.3	2.0	3.0	4.0	18	70	201	240	230	185
12	110	20	4.0	2.0	3.0	4.0	18	85	172	240	233	179
13	95	18	3.8	2.0	3.0	4.0	18	130	155	240	233	169
14	120	18	4.8	2.0	3.0	4.0	20	100	162	240	314	157
15	100	45	3.8	2.0	3.0	4.0	60	90	185	397	338	119
16	65	58	3.2	2.0	4.0	4.0	36	90	199	595	303	133
17	50	34	3.6	2.0	4.0	4.0	28	72	207	377	244	300
18	46	27	3.6	2.0	4.0	4.0	26	82	201	310	220	310
19	34	34	3.2	2.0	4.0	4.0	24	87	230	289	688	201
20	34	30	3.1	2.0	4.0	4.0	22	99	275	365	417	177
21	26	27	3.1	2.0	4.0	4.0	22	133	282	373	279	214
22	22	20	3.1	2.0	4.0	4.0	22	133	244	293	449	174
23	24	18	3.1	2.0	4.0	4.0	22	103	296	244	525	155
24	33	18	3.0	2.0	4.0	4.0	22	105	307	227	479	135
25	29	16	3.0	2.0	4.0	4.0	24	122	279	240	405	119
26	26	16	3.0	2.0	4.0	4.0	34	126	265	321	413	97
27	23	14	2.8	2.0	4.0	4.0	44	109	237	361	220	88
28	23	14	5.6	2.0	4.0	4.0	20	117	227	361	169	77
29	28	14	3.8	2.0	------	4.0	17	130	201	342	172	67
30	26	10	3.1	2.0	------	4.0	15	110	187	335	196	84
31	26	------	3.0	2.0	------	4.0	------	110	------	338	214	------
TOTAL	2,740	1,371	147.6	65.1	97.0	124.0	728.0	2,652	6,465	8,907	9,746	6,413
MEAN	88.4	45.7	4.76	2.10	3.46	4.00	24.3	85.5	216	287	314	214
MAX	360	185	10	2.8	4.0	4.0	70	133	307	595	688	441
MIN	22	10	2.8	2.0	3.0	4.0	4.0	14	130	196	169	67
CFSM	10.7	5.51	.57	.25	.42	.48	2.93	10.3	26.1	34.6	37.9	25.8
IN.	12.30	6.15	.66	.29	.44	.56	3.27	11.90	29.01	39.97	43.73	28.78
AC-FT	5,430	2,720	293	129	192	246	1,440	5,260	12,820	17,670	19,330	12,720

CAL YR 1970	TOTAL 37,622.7	MEAN 103	MAX 1,000	MIN 2.5	CFSM 12.4	IN 168.83	AC-FT 74,620
WTR YR 1971	TOTAL 39,455.7	MEAN 108	MAX 688	MIN 2.0	CFSM 13.0	IN 177.05	AC-FT 78,260

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
8-19	1530	13.99	1,710				

NOTE.--No gage-height record Jan. 9 to May 15.

15034000 Long River near Juneau

LOCATION.--Lat 58°10'00", long 133°41'50", in Tongass National Forest, on right bank 0.4 mile upstream from Indian Lake, 1 mile downstream from Long Lake, and 27 miles southeast of Juneau.

DRAINAGE AREA.--32.5 sq mi.

PERIOD OF RECORD.--October 1915 to September 1924, October to December 1926, June 1927 to May 1933, October 1951 to current year. Monthly discharge only for some periods, published in WSP 1372. Prior to January 1921 published as "below Second Lake, at Port Snettisham".

GAGE.--Water-stage recorder. Altitude of gage is 183 ft (from topographic map). Prior to Oct. 1, 1929, at site 600 ft upstream at different datum.

AVERAGE DISCHARGE.--34 years, 470 cfs (196.39 inches per year, 340,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,270 cfs Oct. 1 (gage height, 6.68 ft); minimum discharge, 4.2 cfs Oct. 23 (gage height, 0.19 ft), gates were closed at Long Lake.

Period of record: Maximum discharge, 6,000 cfs Sept. 10, 1927 (gage height, 10.2 ft, site and datum then in use), from rating curve extended above 1,700 cfs; maximum gage height, 11.23 ft Oct. 3, 1961; minimum discharge, 3.0 cfs Aug. 27, 28, 29, 1969, Jan. 15 to Feb. 19, 1970, gates were closed at Long Lake.

REMARKS.--Records good except those for winter periods, which are poor. Streamflow affected by glacier melt at source. Flow has been regulated by gates in diversion tunnel at Long Lake since July 16, 1969. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,980	892	48	46	40	36	30	100	385	820	1,160	1,040
2	1,900	828	44	50	40	34	40	108	393	794	1,220	1,030
3	1,830	508	42	55	40	34	46	157	402	778	1,320	1,080
4	1,740	625	40	60	42	32	70	166	408	761	1,280	1,110
5	1,660	522	38	70	42	32	95	150	452	705	1,250	1,200
6	1,590	406	36	100	42	30	90	172	525	737	1,220	1,310
7	1,520	266	36	140	44	30	62	310	578	761	1,220	1,250
8	1,400	244	34	130	44	30	54	246	640	800	1,200	1,270
9	603	310	34	110	44	28	50	233	690	871	1,160	1,290
10	485	195	34	90	44	28	48	239	741	927	1,080	1,200
11	1,350	290	40	75	44	28	48	276	749	873	1,030	1,080
12	1,320	351	46	65	44	26	50	298	745	965	1,020	1,030
13	1,280	338	46	60	44	26	53	320	717	945	1,020	1,010
14	1,200	328	44	55	44	26	77	308	690	916	1,020	929
15	1,170	411	46	50	44	26	70	285	686	941	1,040	812
16	1,000	379	34	50	44	26	63	269	698	1,150	1,070	709
17	778	354	32	48	44	24	63	262	709	1,240	1,070	685
18	618	302	30	46	44	24	65	269	713	1,220	1,040	753
19	536	269	30	46	44	24	68	278	733	1,210	1,100	763
20	436	155	28	44	44	24	67	288	769	1,170	1,280	704
21	357	132	28	44	42	22	66	328	832	1,210	1,240	666
22	168	120	26	44	42	22	66	357	854	1,190	1,270	641
23	6.8	100	28	42	40	22	70	354	905	1,160	1,360	606
24	110	90	32	42	40	22	76	357	996	1,060	1,400	564
25	302	80	42	42	40	22	81	365	1,010	1,030	1,380	517
26	24	75	48	42	38	22	91	376	1,010	1,030	1,440	469
27	246	65	48	40	36	22	99	370	981	1,030	1,370	425
28	388	60	44	40	36	22	95	373	947	1,060	1,300	383
29	512	55	40	40	------	22	92	390	910	1,100	1,230	346
30	729	50	40	40	------	24	98	379	864	1,110	1,170	323
31	618	------	42	40	------	26	------	373	------	1,130	1,070	------
TOTAL	27,856.8	8,800	1,180	1,846	1,176	816	2,043	8,756	21,732	30,694	37,030	25,195
MEAN	899	293	38.1	59.5	42.0	26.3	68.1	282	724	990	1,195	840
MAX	1,980	892	48	140	44	36	99	390	1,010	1,240	1,440	1,310
MIN	6.8	50	26	40	36	22	30	100	385	705	1,020	323
CFSM	27.7	9.02	1.17	1.83	1.29	.81	2.10	8.68	22.3	30.5	36.8	25.8
IN.	31.89	10.07	1.35	2.11	1.35	.93	2.34	10.02	24.87	35.13	42.39	28.84
AC-FT	55,250	17,450	2,340	3,660	2,330	1,620	4,050	17,370	43,110	60,880	73,450	49,970

CAL YR 1970 TOTAL 186,714.2 MEAN 512 MAX 2,260 MIN 3.0 CFSM 15.8 IN 213.72 AC-FT 370,300
WTR YR 1971 TOTAL 167,124.8 MEAN 458 MAX 1,980 MIN 6.8 CFSM 14.1 IN 191.29 AC-FT 331,500

15036000 Speel River near Juneau

LOCATION.--Lat 58°12'10", long 133°36'40", in Tongsss National Forest, on right bank 0.8 mile downstream from Long River, 8 miles upstream from mouth at Speel Arm of Port Snettisham snd 30 miles southeast of Juneau.

DRAINAGE AREA.--226 sq mi.

PERIOD OF RECORD.--July 1916 to September 1918, May 1960 to current year. Monthly discharge only for periods published in WSP 1372.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (from topographic map). July 1916 to Sept. 30, 1918, water-stage recorder at site 0.2 mile upstream at different datum. May 25 to Sept. 28, 1960, non-recording gage at present site and datum.

AVERAGE DISCHARGE.--13 years, 2,673 cfs (160.62 inches per year, 1,937,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 13,500 cfs Oct. 1 (gage height, 11.23 ft), occurred on recession following peak of Sept. 29, 1970; maximum independent peak discharge, 12,700 cfs Aug. 3 (gage height, 10.67 ft); minimum daily discharge, 77 cfs Mar. 26-30.

Period of record: Maximum discharge, 35,600 cfs (estimated) Sept. 27, 1918; minimum observed, 42.7 cfs Jan. 30, 1969. The flood of Sept. 27, 1918 destroyed the gage.

REMARKS.--Records good except those for winter periods and those for the period of no gage-height record, which are poor. Large diurnal fluctuation caused by glacial melt at the source. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,300	1,900	172	180	146	125	81	500	2,460	4,360	7,780	5,920
2	8,230	2,500	162	170	148	120	85	542	2,460	4,210	9,360	5,270
3	8,290	3,000	155	158	149	116	95	800	2,320	4,000	9,070	6,870
4	6,100	3,300	148	158	150	112	130	1,000	2,510	4,150	7,300	6,500
5	4,620	3,350	140	170	150	110	170	808	3,080	4,090	6,850	6,000
6	3,700	2,700	134	300	160	106	210	859	4,510	4,330	6,120	7,340
7	3,060	1,800	128	680	172	104	260	1,930	5,320	5,000	7,240	5,760
8	2,870	1,200	121	700	205	102	260	1,400	6,040	6,040	6,780	6,320
9	2,840	920	116	650	260	100	210	996	6,180	7,060	5,960	5,480
10	2,800	810	114	500	310	98	201	936	5,860	7,070	6,140	3,790
11	2,800	850	124	340	360	95	183	1,230	5,230	6,480	6,120	3,550
12	3,050	950	150	260	410	92	178	1,600	5,010	6,240	6,320	3,610
13	2,950	1,080	170	215	425	91	192	1,800	4,540	5,820	6,580	3,360
14	3,050	1,220	170	195	420	90	351	1,550	4,330	5,760	6,390	3,500
15	3,200	1,200	140	182	385	89	411	1,370	4,400	6,880	6,850	2,810
16	2,500	1,320	122	176	350	88	339	1,610	4,650	9,140	7,380	2,460
17	1,800	1,150	115	170	320	88	293	1,710	4,890	7,990	6,370	3,340
18	1,350	900	108	168	320	86	293	1,820	4,820	7,130	5,760	4,620
19	1,150	630	104	164	350	84	282	1,790	5,250	6,800	6,360	5,140
20	1,050	540	100	160	360	84	250	1,850	6,020	7,150	7,720	3,880
21	900	460	98	158	350	82	225	2,340	6,620	7,570	5,960	3,640
22	750	410	96	152	320	81	220	2,380	6,200	7,110	6,460	3,500
23	695	360	94	152	280	80	255	2,080	6,870	6,240	7,980	3,080
24	650	330	96	150	190	79	288	2,050	7,450	5,630	7,380	2,870
25	620	300	110	148	158	78	369	2,290	7,010	5,720	5,780	2,530
26	600	265	155	148	148	77	435	2,400	6,940	6,540	6,200	2,080
27	600	240	280	146	138	77	556	2,260	5,940	7,620	4,680	1,820
28	610	215	290	146	130	77	514	2,460	5,140	7,740	4,090	1,690
29	700	200	250	146	------	77	514	2,530	4,620	7,470	3,730	1,530
30	1,200	185	225	146	------	77	528	2,320	4,350	7,420	4,220	1,440
31	1,550	------	200	146	------	79	------	2,220	------	7,700	4,750	------
TOTAL	84,585	34,285	4,587	7,334	7,264	2,844	8,378	51,431	151,020	196,460	199,680	119,700
MEAN	2,729	1,143	148	237	259	91.7	279	1,659	5,034	6,337	6,441	3,990
MAX	10,300	3,350	290	700	425	125	556	2,530	7,450	9,140	9,360	7,340
MIN	600	185	94	146	130	77	81	500	2,320	4,000	3,730	1,440
CFSM	12.1	5.06	.65	1.05	1.15	.41	1.23	7.34	22.3	28.0	28.5	17.7
IN.	13.92	5.64	.76	1.21	1.20	.47	1.38	8.47	24.86	32.34	32.87	19.70
AC-FT	167,800	68,000	9,100	14,550	14,410	5,640	16,620	102,000	299,500	389,700	396,100	237,400

CAL YR 1970 TOTAL 933,204 MEAN 2,557 MAX 21,500 MIN 94 CFSM 11.3 IN 153.61 AC-FT 1,851,000
WTR YR 1971 TOTAL 867,568 MEAN 2,377 MAX 10,300 MIN 77 CFSM 10.5 IN 142.80 AC-FT 1,721,000

PEAK DISCHARGE(BASE, 15,000 CFS). No peak above base.

NOTE.--No gage-height record Oct. 9 to Feb. 25.

15048000 Sheep Creek near Juneau

LOCATION.--Lat 58°16'30", long 134°18'50", in Tongass National Forest, on right bank, 200 ft upstream from abandoned diversion dam of Alaska-Juneau Gold Mining Company's Sheep Creek powerplant, 1 mile upstream from mouth at Gastineau Channel, and 4 miles southeast of Juneau.

DRAINAGE AREA.--4.57 sq mi.

PERIOD OF RECORD.--January 1911 to December 1913, August 1916 to December 1920, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1372. Prior to 1946 published as "near Thane".

GAGE.--Water-stage recorder. Datum of gage is 629.8 ft above mean sea level (levels by Conservation Division, U.S. Geological Survey). Prior to July 26, 1916, nonrecording gage, and July 26, 1916 to Sept. 30, 1961, water-stage recorder at site 0.3 mile upstream at datum 13.7 ft higher.

AVERAGE DISCHARGE.--31 years, 48.9 cfs (145.31 inches per year, 35,430 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 392 cfs July 16 (gage height, 1.66 ft); minimum daily, 8.4 cfs Apr. 4, 5, 6.
Period of record: Maximum discharge, 840 cfs Sept. 8, 1948 (gage height, 3.60 ft), from rating curve extended above 300 cfs; no flow at times at old site, probably some flow at all times at present site (records for period 1916-20 based on measurements at diversion dam).

REMARKS.--Records good. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	84	18	9.6	10	14	8.8	18	73	87	56	70
2	252	71	18	9.2	10	14	8.8	19	73	91	96	65
3	228	64	17	9.2	10	13	8.8	20	71	92	91	85
4	194	54	16	8.8	10	13	8.4	27	73	87	69	76
5	160	45	16	10	10	12	8.4	27	87	85	61	105
6	135	41	16	45	10	12	8.4	32	115	87	57	108
7	119	39	15	52	10	12	8.8	71	127	88	91	108
8	105	35	14	35	10	12	9.6	51	122	91	65	119
9	91	32	14	27	10	12	10	46	115	95	58	105
10	122	29	13	25	10	12	10	47	108	91	54	88
11	104	32	13	24	10	11	10	56	107	87	53	81
12	107	37	13	22	10	11	10	69	102	84	50	81
13	110	34	12	20	11	11	10	67	92	78	52	81
14	112	35	12	18	11	11	11	62	88	80	76	73
15	168	40	12	18	13	10	11	55	94	120	102	66
16	142	35	11	18	14	10	11	55	95	289	90	61
17	119	34	11	17	16	10	11	52	97	166	70	66
18	98	32	11	17	16	10	11	52	98	110	64	72
19	91	29	11	16	16	10	11	55	101	97	93	65
20	78	27	10	15	16	9.6	11	54	110	108	80	58
21	67	26	10	14	16	9.6	11	69	110	117	69	63
22	49	26	10	13	16	9.6	11	71	101	87	77	58
23	40	26	10	13	16	9.2	11	71	98	69	90	53
24	40	24	10	12	16	8.8	11	70	120	63	107	51
25	36	24	10	12	15	8.8	11	72	115	62	91	47
26	34	23	9.6	12	14	8.8	12	72	108	67	122	44
27	37	22	9.6	11	14	8.8	13	71	97	66	85	41
28	35	21	9.6	11	14	8.8	14	75	91	64	75	39
29	62	20	9.6	11	------	8.8	16	78	92	58	69	36
30	83	19	9.6	11	------	8.8	16	70	91	56	65	39
31	73	------	9.6	11	------	8.8	------	67	------	56	62	------
TOTAL	3,353	1,060	380.6	546.8	354	328.4	323.0	1,721	2,971	2,878	2,340	2,104
MEAN	108	35.3	12.3	17.6	12.6	10.6	10.8	55.5	99.0	92.8	75.5	70.1
MAX	262	84	18	52	16	14	16	78	127	289	122	119
MIN	34	19	9.6	8.8	10	8.8	8.4	18	71	56	50	36
CFSM	23.6	7.72	2.69	3.85	2.76	2.32	2.36	12.1	21.7	20.3	16.5	15.3
IN.	27.29	8.63	3.10	4.45	2.88	2.67	2.63	14.01	24.18	23.43	19.05	17.13
AC-FT	6,650	2,100	755	1,080	702	651	641	3,410	5,890	5,710	4,640	4,170

CAL YR 1970 TOTAL 20,555.9 MEAN 56.3 MAX 400 MIN 9.6 CFSM 12.3 IN 167.33 AC-FT 40,770
WTR YR 1971 TOTAL 18,359.8 MEAN 50.3 MAX 289 MIN 8.4 CFSM 11.0 IN 149.45 AC-FT 36,420

PEAK DISCHARGE (BASE, 320 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-2	1930	1.55	340	7-16	0800	1.66	392

15050000 Gold Creek at Juneau

LOCATION.--Lat 58°18'25", long 134°24'05", on left bank 10 ft downstream from highway bridge, 150 ft upstream from Alaska Electric Light and Power Company dam and diversion, 0.5 miles northeast of Juneau, and 1 mile upstream from mouth at Gastineau Channel.

DRAINAGE AREA.--9.76 sq mi.

PERIOD OF RECORD.--July 1916 to December 1920 (monthly discharge only), October 1946 to September 1948, October 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 245 ft (from topographic map). July 20, 1916 to Dec. 31, 1920, at site 50 ft upstream at different datum. Sept. 11, 1946 to Sept. 30, 1948, nonrecording gage at site 0.7 mile downstream at different datum.

AVERAGE DISCHARGE.--28 years (1917-20, 1947-48, 1950-71), 107 cfs (148.88 inches per year, 77,520 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,220 cfs July 16 (gage height, 5.14 ft); minimum daily, 3.5 cfs Mar. 18-28.
Period of record: Maximum discharge, 2,650 cfs Aug. 12, 1961 (gage height, 6.57 ft), from rating curve extended above 1,500 cfs; no flow at times during winters of 1951 and 1956.

REMARKS.--Records good except those for winter periods, which are poor. Records of suspended-sediment loads for the 1971 water year are in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	193	18	5.0	4.5	7.0	6.0	20	110	142	220	172
2	499	144	35	5.0	4.0	6.5	8.0	25	116	171	383	156
3	378	118	20	5.0	4.0	6.0	10	40	95	192	294	278
4	256	94	15	7.0	4.0	5.5	18	35	99	162	208	195
5	196	76	14	43	4.0	5.0	17	25	137	150	176	294
6	163	66	14	116	4.0	5.0	20	40	263	161	159	303
7	77	58	13	126	4.0	4.5	24	100	303	175	293	278
8	73	52	12	82	4.5	4.5	23	60	276	198	191	321
9	72	47	11	60	5.0	4.5	20	54	246	231	158	277
10	196	45	11	50	5.5	4.5	18	66	227	205	153	200
11	118	58	10	40	6.0	4.3	17	112	212	184	148	178
12	113	71	10	30	7.0	4.2	17	126	189	171	141	175
13	126	58	11	25	8.0	4.2	23	123	150	148	166	162
14	144	68	12	20	9.0	4.0	35	85	139	157	221	142
15	246	96	11	17	11	4.0	30	68	143	325	275	108
16	142	79	10	15	15	4.0	25	64	151	809	231	101
17	105	68	9.0	13	17	4.0	22	58	163	386	168	150
18	85	58	8.0	11	20	3.5	21	61	167	273	164	160
19	82	48	7.5	10	18	3.5	21	68	187	255	287	126
20	71	44	7.0	9.0	16	3.5	20	68	229	309	228	110
21	64	40	7.0	8.0	15	3.5	16	88	255	345	175	130
22	58	38	7.0	7.5	13	3.5	16	90	218	235	267	112
23	54	35	6.5	7.0	11	3.5	18	73	208	193	276	92
24	51	32	7.5	6.5	10	3.5	22	74	254	179	311	76
25	47	30	8.0	6.0	9.5	3.5	30	83	252	193	256	67
26	46	27	7.5	5.8	9.0	3.5	45	89	237	245	329	57
27	51	25	7.0	5.5	8.0	3.5	40	93	189	237	200	50
28	50	24	6.0	5.0	7.5	3.5	30	107	156	248	148	45
29	156	22	5.5	5.0	------	4.0	25	130	155	222	132	42
30	199	20	5.0	4.5	------	4.0	20	100	148	209	139	51
31	162	------	5.0	4.5	------	5.0	------	88	------	206	129	------
TOTAL	4,520	1,834	330.5	754.3	253.5	133.2	657.0	2,313	5,674	7,316	6,626	4,608
MEAN	146	61.1	10.7	24.3	9.05	4.30	21.9	74.6	189	236	214	154
MAX	499	193	35	126	20	7.0	45	130	303	809	383	321
MIN	46	20	5.0	4.5	4.0	3.5	6.0	20	95	142	129	42
CFSM	15.0	6.26	1.10	2.49	.93	.44	2.24	7.64	19.4	24.2	21.9	15.8
IN.	17.23	6.99	1.26	2.87	.97	.51	2.50	8.82	21.63	27.88	25.25	17.56
AC-FT	8,970	3,640	656	1,500	503	264	1,300	4,590	11,250	14,510	13,140	9,140

CAL YR 1970 TOTAL 44,848.0 MEAN 123 MAX 1,200 MIN 5.0 CFSM 12.6 IN 170.94 AC-FT 88,960
WTR YR 1971 TOTAL 35,019.5 MEAN 95.9 MAX 809 MIN 3.5 CFSM 9.83 IN 133.48 AC-FT 69,460

NOTE.--No gage-height record Mar. 28 to May 8.

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
7-16	0745	5.14	1,220				

15052000 Lemon Creek near Juneau

LOCATION.--Lat 58°23'30", long 134°25'15", in Tongass National Forest, on left bank 0.3 mile upstream from Canyon Creek, 4.5 miles upstream from mouth at Gastineau Channel, and 6 miles north of Juneau.

DRAINAGE AREA.--12.1 sq mi.

PERIOD OF RECORD.--August 1951 to November 1953, July 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (from topographic map). Prior to Oct. 24, 1967, at datum 1.09 ft higher.

AVERAGE DISCHARGE.--19 years, 155 cfs (173.96 inches per year, 112,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs Aug. 19 (gage height, 4.47 ft); minimum daily, 1.5 cfs Jan. 31, Feb. 1-5, and Mar. 13-31.
Period of record: Maximum discharge, 3,370 cfs Aug. 13, 1961 (gage height, 5.31 ft); minimum not determined.

REMARKS.--Records good except those for winter periods, which are poor. Large diurnal fluctuations caused by glacial melt at source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	264	11	3.5	1.5	2.5	2.0	13	79	268	524	484
2	563	227	10	4.0	1.5	2.5	2.2	13	80	276	774	462
3	526	189	9.0	5.5	1.5	2.5	4.1	21	66	270	702	669
4	335	137	8.5	16	1.5	2.5	5.4	17	75	275	588	557
5	215	91	8.0	38	1.5	2.0	3.8	15	142	282	456	558
6	155	71	8.0	80	2.0	2.0	9.5	30	291	316	413	478
7	121	62	7.0	36	4.0	2.0	7.4	57	293	344	537	451
8	114	53	7.0	22	9.5	2.0	5.2	26	291	387	492	334
9	119	51	7.0	15	11	2.0	3.9	17	278	459	411	247
10	183	46	7.5	11	9.5	2.0	4.1	27	245	448	394	226
11	138	62	7.5	8.5	8.5	2.0	4.3	59	203	426	398	221
12	139	67	7.5	7.5	8.0	2.0	3.6	76	187	383	431	242
13	171	55	7.5	6.0	7.0	1.5	5.6	60	159	344	449	212
14	165	52	7.0	5.0	6.0	1.5	14	39	148	334	611	268
15	178	55	6.5	4.5	6.0	1.5	6.3	32	152	443	567	173
16	102	47	5.5	4.0	5.0	1.5	5.2	29	171	692	548	225
17	75	38	5.0	3.5	4.5	1.5	5.2	30	184	628	472	425
18	62	33	4.5	3.5	4.5	1.5	5.7	38	195	522	479	424
19	64	28	4.5	3.0	4.0	1.5	5.2	45	232	457	853	338
20	52	26	4.5	3.0	4.0	1.5	4.8	48	289	525	801	313
21	45	22	5.0	3.0	4.0	1.5	4.3	66	330	565	606	396
22	42	20	5.0	2.5	3.5	1.5	5.0	50	329	443	589	353
23	41	19	5.0	2.5	3.5	1.5	7.3	39	366	362	699	293
24	40	17	5.0	2.5	3.5	1.5	11	42	388	337	685	215
25	36	16	5.0	2.0	3.0	1.5	12	48	434	363	511	158
26	34	15	4.0	2.0	3.0	1.5	26	52	422	454	445	125
27	39	14	3.5	2.0	3.0	1.5	20	58	352	471	343	114
28	34	13	3.5	2.0	3.0	1.5	14	74	315	508	301	85
29	133	12	3.0	2.0	------	1.5	14	83	284	517	325	75
30	205	11	3.0	2.0	------	1.5	14	59	270	514	407	75
31	195	------	3.5	1.5	------	1.5	------	57	------	523	356	------
TOTAL	4,961	1,813	188.5	303.5	127.5	54.5	235.1	1,320	7,250	13,136	16,167	9,196
MEAN	160	60.4	6.08	9.79	4.55	1.76	7.84	42.6	242	424	522	307
MAX	640	264	11	80	11	2.5	26	83	434	692	853	669
MIN	34	11	3.0	1.5	1.5	1.5	2.0	13	66	268	301	75
CFSM	13.2	4.99	.50	.81	.38	.15	.65	3.52	20.0	35.0	43.1	25.4
IN.	15.25	5.57	.58	.93	.39	.17	.72	4.06	22.29	40.39	49.70	28.27
AC-FT	9,840	3,600	374	602	253	108	466	2,620	14,380	26,060	32,070	18,240

CAL YR 1970 TOTAL 55,232.9 MEAN 151 MAX 1,420 MIN 2.8 CFSM 12.5 IN 169.81 AC-FT 109,600
WTR YR 1971 TOTAL 54,752.1 MEAN 150 MAX 853 MIN 1.5 CFSM 12.4 IN 168.33 AC-FT 108,600

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
8-19	1815	4.47	1,210				

15052500 Mendenhall River near Auke Bay

LOCATION.--Lat 58°25'05", long 134°32'40", in SW¼NE¼ sec.8, T.40 S., R.66 E., at east end of Mendenhall Lake, 250 ft northwest of Mendenhall Visitors Center, 4.2 miles northeast of Auke Bay, and 7 miles upstream from mouth at Fritz Cove.

DRAINAGE AREA.--85.1 sq mi.

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about 60 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 1,090 cfs (173.94 inches per year, 789,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,160 cfs Oct. 1 (gage height, 7.63 ft), occurred on recession following peak of Sept. 29, 1970; maximum independent peak discharge, 5,610 cfs Aug. 3 (gage height, 7.35 ft); minimum daily discharge, 23 cfs Apr. 2.

Period of record: Maximum discharge, 9,020 cfs Sept. 15, 1967; maximum gage height, 8.94 ft Aug. 24, 1966; minimum daily discharge, 19 cfs Mar. 1-3, 1969.

REMARKS.--Records fair except those for winter periods, which are poor. Large diurnal fluctuations caused by glacial melt at the source. Records of chemical analyses and suspended-sediment loads for the current water year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,960	1,140	100	50	45	83	24	116	538	1,940	3,910	2,930
2	5,140	1,200	100	50	45	60	23	113	578	1,900	4,470	2,860
3	4,260	1,350	95	50	45	49	27	135	555	1,830	5,360	3,180
4	3,010	1,590	90	55	45	51	29	152	614	1,750	4,270	3,190
5	2,120	1,270	85	82	45	48	32	142	776	1,860	3,740	2,460
6	1,550	1,000	85	238	45	48	37	157	1,110	2,020	3,280	2,810
7	1,230	896	80	411	50	48	42	338	1,380	2,190	3,880	2,340
8	1,040	760	80	307	55	46	43	329	1,390	2,430	3,660	1,320
9	1,050	634	75	194	60	46	41	250	1,320	2,790	3,170	732
10	1,310	500	75	152	80	44	38	285	1,420	3,010	3,130	325
11	1,710	420	75	132	100	44	38	391	1,470	3,080	3,180	192
12	1,540	415	70	100	120	44	37	445	1,390	3,040	3,320	187
13	1,510	405	70	90	130	43	44	516	1,240	2,850	3,640	165
14	1,630	391	65	80	140	40	63	472	1,270	2,660	4,160	154
15	1,720	420	60	75	150	39	69	410	1,350	2,950	4,720	1,460
16	1,230	440	55	70	138	38	64	351	1,420	3,920	4,160	1,410
17	776	440	55	70	131	36	59	312	1,330	3,790	3,490	1,990
18	614	369	55	65	120	35	60	308	1,380	3,410	3,180	2,580
19	560	300	55	65	111	33	59	321	1,530	3,200	3,740	2,840
20	511	248	50	60	128	34	56	342	1,810	3,540	4,510	2,820
21	445	221	50	60	124	34	50	410	2,100	3,960	4,080	2,740
22	391	200	50	55	124	34	48	435	2,190	3,480	3,650	2,470
23	355	180	50	55	122	32	48	387	2,220	3,240	3,830	2,120
24	346	160	50	50	111	31	57	364	2,370	3,080	4,130	1,940
25	325	150	50	50	103	31	72	378	2,560	2,770	3,490	1,460
26	308	140	50	50	96	28	90	405	2,860	3,220	2,970	1,230
27	321	130	50	50	86	27	140	430	2,590	3,640	1,960	1,020
28	321	120	50	45	81	25	144	478	2,270	3,890	1,400	753
29	494	120	50	45	------	25	133	590	2,050	3,820	1,330	655
30	808	110	50	45	------	26	122	544	1,960	3,680	1,760	560
31	912	------	50	45	------	25	------	483	------	3,780	2,440	------
TOTAL	43,497	15,719	2,025	2,946	2,630	1,227	1,789	10,789	47,041	92,720	108,010	50,893
MEAN	1,403	524	65.3	95.0	93.9	39.6	59.6	348	1,568	2,991	3,484	1,696
MAX	5,960	1,590	100	411	150	83	144	590	2,860	3,960	5,360	3,190
MIN	308	110	50	45	45	25	23	113	538	1,750	1,330	154
CFSM	16.5	6.16	.77	1.12	1.10	.47	.70	4.09	18.4	35.1	40.9	19.9
IN.	19.01	6.87	.89	1.29	1.15	.54	.78	4.72	20.56	40.53	47.21	22.25
AC-FT	86,280	31,180	4,020	5,840	5,220	2,430	3,550	21,400	93,310	183,900	214,200	100,900

CAL YR 1970 TOTAL 378,269 MEAN 1,036 MAX 7,420 MIN 50 CFSM 12.2 IN 165.35 AC-FT 750,300
WTR YR 1971 TOTAL 379,286 MEAN 1,039 MAX 5,960 MIN 23 CFSM 12.2 IN 165.80 AC-FT 752,300

PEAK DISCHARGE (BASE, 4,600 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
8-03	0615	7.35	5,610	8-15	1600	7.00	4,980

15052800 Montana Creek near Auke Bay

LOCATION.--Lat 58°23'53", long 134°36'34", in E½SW¼ sec.13, T.40 S., R.65 E., on right bank 80 ft upstream from highway bridge, 1.4 miles upstream from mouth at Mendenhall River, 1.5 miles northeast of Auke Bay and 3.9 miles downstream from McGinnis Creek.

DRAINAGE AREA.--15.5 sq mi.

PERIOD OF RECORD.--August 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 102 cfs (89.37 inches per year, 73,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 803 cfs Oct. 10 (gage height, 13.88 ft); maximum gage height, 14.72 ft Jan. 6 (backwater from ice); minimum discharge, 6.5 cfs July 13, 14.
Period of record: Maximum discharge, 1,920 cfs Aug. 23, 1966 (gage height, 16.77 ft); minimum daily, 5.0 cfs Mar. 25-27, 1967.

REMARKS.--Records good except those for winter periods, which are poor. Some diurnal fluctuations caused by glacier melt at the source. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	183	22	30	19	36	17	35	80	20	91	194
2	374	142	20	36	20	36	12	42	70	28	230	150
3	294	112	20	46	22	30	27	134	52	25	239	206
4	176	89	20	60	24	26	34	70	59	16	118	176
5	136	77	20	100	28	22	29	27	97	18	89	201
6	112	69	20	240	30	18	41	67	152	23	84	294
7	102	64	22	340	34	16	46	261	144	27	281	237
8	97	59	22	260	50	15	38	58	138	33	114	198
9	99	52	26	170	150	14	32	30	120	37	89	307
10	410	49	30	70	340	14	29	42	104	34	79	150
11	232	51	30	50	340	13	28	138	97	25	73	126
12	178	62	30	36	300	13	28	106	89	17	72	110
13	166	55	30	26	300	12	45	106	53	8.0	77	108
14	201	52	28	20	300	12	70	65	41	7.2	159	108
15	375	82	24	20	220	12	45	49	37	41	198	91
16	224	82	24	19	160	11	40	41	44	206	181	84
17	147	80	22	18	140	11	38	41	44	65	116	234
18	126	61	22	17	120	11	38	45	44	22	93	213
19	137	49	22	17	100	11	37	54	55	16	110	148
20	122	55	22	17	90	10	29	54	70	36	118	102
21	97	48	22	16	130	10	25	110	84	65	96	124
22	86	44	24	16	140	10	25	66	57	16	148	102
23	80	40	26	16	90	10	38	48	59	46	170	80
24	92	36	30	15	60	10	48	56	99	84	488	67
25	85	32	34	15	50	10	50	59	59	89	242	59
26	77	30	32	15	46	10	89	59	57	106	246	53
27	148	28	28	15	40	10	66	72	40	101	144	48
28	101	26	26	15	36	11	49	110	26	144	109	42
29	230	24	26	15	------	11	37	120	36	99	95	40
30	203	22	26	16	------	12	33	64	25	88	89	51
31	146	------	28	17	------	14	------	56	------	86	84	------
TOTAL	5,417	1,855	778	1,763	3,379	461	1,163	2,285	2,132	1,628.2	4,522	4,103
MEAN	175	61.8	25.1	56.9	121	14.9	38.8	73.7	71.1	52.5	146	137
MAX	410	183	34	340	340	36	89	261	152	206	488	307
MIN	77	22	20	15	19	10	12	27	25	7.2	72	40
CFSM	11.3	3.99	1.62	3.67	7.81	.96	2.50	4.75	4.59	3.39	9.42	8.84
IN.	13.00	4.45	1.87	4.23	8.11	1.11	2.79	5.48	5.12	3.91	10.85	9.85
AC-FT	10,740	3,680	1,540	3,500	6,700	914	2,310	4,530	4,230	3,230	8,970	8,140

CAL YR 1970 TOTAL 39,693.0 MEAN 109 MAX 1,350 MIN 10 CFSM 7.03 IN 95.26 AC-FT 78,730
WTR YR 1971 TOTAL 29,486.2 MEAN 80.8 MAX 488 MIN 7.2 CFSM 5.21 IN 70.77 AC-FT 58,490

PEAK DISCHARGE (BASE, 800 CFS).--Oct. 10 (1515) 803 cfs (13.88 ft).

15053800 Lake Creek at Auke Bay

LOCATION.--Lat 58°23'40", long 134°37'50", in NW¼NE¼ sec.23, T.40 S., R.65 E., on right bank 45 ft upstream from bridge on Mendenhall Loop Road, 700 ft upstream from mouth at Auke Lake, and 0.8 mile northeast of Auke Bay.

DRAINAGE AREA.--2.50 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 12.8 cfs (69.53 inches per year, 9,270 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 249 cfs Sept. 8 (gage height, 4.16 ft); maximum gage height, 5.62 ft Feb. 8 (ice jam); minimum daily, 0.25 cfs July 13, 14.
Period of record: Maximum discharge, 980 cfs Aug. 23, 1966 (gage height, 5.20 ft), from rating curve extended above 200 cfs; maximum gage height, 5.91 ft July 28, 1968; no flow Nov. 23-28, 1963, and many days during winter period 1969.

REMARKS.--Records good except those for winter periods, which are poor. A 3 in. intake pipe for domestic water supply starts about 25 ft above the station. Records of chemical analyses, water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	10	1.0	24	.50	3.0	.30	9.5	32	3.6	.40	50
2	48	6.9	1.0	25	.50	4.5	.30	16	23	12	27	25
3	17	3.1	1.0	25	.50	7.0	2.1	26	20	7.3	40	46
4	8.9	1.5	1.0	27	.50	5.5	14	21	26	3.6	10	27
5	5.3	.90	1.0	30	.50	5.0	2.9	10	35	1.9	4.0	37
6	2.4	.60	1.0	42	.50	4.5	5.8	26	38	1.4	9.1	58
7	1.6	.40	1.0	14	.50	4.0	6.2	62	34	.90	75	48
8	4.6	.40	1.0	9.0	1.0	3.5	2.9	20	35	.70	15	48
9	7.5	.40	1.0	6.0	1.5	3.0	1.8	6.9	37	.55	8.6	55
10	5.5	.30	1.0	4.5	2.0	3.0	1.5	10	26	.40	6.5	17
11	5.5	.90	1.0	3.5	3.5	2.5	1.2	39	29	.35	4.9	14
12	11	2.9	1.0	2.5	6.0	2.1	1.1	31	31	.30	4.0	10
13	52	1.4	1.0	2.5	15	2.1	3.8	33	16	.25	3.4	12
14	36	.90	1.1	2.0	13	2.1	10	20	16	.25	20	9.5
15	9.2	6.2	1.8	1.5	10	2.1	5.0	15	16	6.9	48	6.6
16	7.0	9.5	2.4	1.5	7.0	1.8	3.3	12	13	.60	29	4.1
17	6.0	12	2.4	1.5	4.5	1.6	3.3	14	9.0	21	13	49
18	5.0	3.6	2.4	1.0	3.5	1.5	3.6	17	8.5	6.2	6.7	41
19	4.0	1.2	2.4	1.0	5.0	1.5	3.6	25	10	2.9	13	19
20	3.5	1.5	2.4	1.0	6.0	1.5	2.4	26	7.6	11	18	8.6
21	3.0	1.4	2.4	1.0	7.0	1.4	1.8	41	7.6	23	12	19
22	2.5	2.4	2.4	1.0	8.0	1.2	1.8	20	3.1	5.0	37	10
23	2.0	2.9	2.4	1.0	6.0	1.4	5.8	16	14	2.1	27	5.5
24	2.0	1.5	2.4	.50	5.0	1.4	12	25	31	1.8	67	3.6
25	2.5	1.4	2.4	.50	4.0	.60	14	22	5.8	1.4	27	2.7
26	3.0	1.0	2.4	.50	4.0	.50	28	28	3.1	1.1	52	1.9
27	5.0	.60	2.6	.50	3.5	.50	19	36	1.9	.99	17	1.5
28	6.0	.60	3.3	.50	3.0	.45	12	40	2.6	.73	9.1	1.4
29	11	.60	5.0	.50	------	.35	8.5	38	23	.60	6.7	1.1
30	34	.60	8.5	.50	------	.30	10	21	7.6	.55	5.6	7.6
31	14	------	17	.50	------	.30	------	25	------	.50	4.6	------
TOTAL	348.0	77.60	78.7	231.50	122.00	70.20	188.00	751.4	561.8	119.87	620.60	639.1
MEAN	11.2	2.59	2.54	7.47	4.36	2.26	6.27	24.2	18.7	3.87	20.0	21.3
MAX	52	12	17	42	15	7.0	28	62	38	23	75	58
MIN	1.6	.30	1.0	.50	.50	.30	.30	6.9	1.9	.25	.40	1.1
CFSM	4.48	1.04	1.02	2.99	1.74	.90	2.51	9.68	7.48	1.55	8.00	8.52
IN.	5.18	1.15	1.17	3.44	1.82	1.04	2.80	11.18	8.36	1.78	9.23	9.51
AC-FT	690	154	156	459	242	139	373	1,490	1,110	238	1,230	1,270

CAL YR 1970 TOTAL 4,066.99 MEAN 11.1 MAX 202 MIN .30 CFSM 4.44 IN 60.52 AC-FT 8,070
WTR YR 1971 TOTAL 3,808.77 MEAN 10.4 MAX 75 MIN .25 CFSM 4.16 IN 56.67 AC-FT 7,550

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
9-8	2145	4.16	249				

15054000 Auke Creek at Auke Bay

LOCATION.--Lat 58°22'56", long 134°38'10", on right bank 100 ft downstream from Glacier Highway, 550 ft downstream from Auke Lake, 0.3 mile upstream from mouth at Auke Bay and 0.5 mile east of Auke Bay.

DRAINAGE AREA.--3.96 sq mi.

PERIOD OF RECORD.--August 1947 to September 1950 (published as "near Auke Bay"), August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is approximately 52.8 ft above msl (levels from MLLW datum bench mark by U.S. Department of Interior, Fish and Wildlife Service). Prior to Sept. 30, 1950, nonrecording gage 400 ft upstream at datum 3.02 ft higher. Aug. 2, 1962 to Jan. 18, 1963, water-stage recorder at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--12 years, 17.5 cfs (60.01 inches per year, 12,680 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 126 cfs Oct. 1, stage falling, peak occurred Sept. 29, 1970; maximum peak discharge, 72 cfs Oct. 15 (gage height, 2.67 ft); minimum daily discharge, 2.0 cfs Jan. 29 to Feb. 6.
Period of record: Maximum discharge observed, 348 cfs Nov. 2, 1949 (gage height, 4.85 ft, site and datum then in use); minimum, 0.02 cfs Aug. 15, 18, 1968.

REMARKS.--Records good except those for winter period and those for period of no gage-height record, which are poor. Small diversion above station for use of Fish and Wildlife Lab and State Fish hatchery. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	23	3.0	4.5	2.0	7.7	4.1	21	26	8.0	3.3	16
2	67	19	3.0	4.5	2.0	7.4	4.0	19	24	10	7.1	22
3	58	16	2.5	4.5	2.0	7.5	4.0	18	26	7.0	22	26
4	37	13	2.5	4.5	2.0	7.8	4.1	17	26	7.0	20	28
5	26	11	2.5	6.0	2.0	7.4	4.4	19	24	9.0	15	24
6	19	10	2.5	14	2.0	7.4	5.7	24	22	5.5	12	37
7	16	9.2	2.5	70	2.5	7.8	7.5	17	26	3.5	34	37
8	14	8.6	2.5	46	2.5	7.1	8.3	22	30	3.0	29	36
9	12	7.9	3.0	30	3.0	5.6	9.9	38	32	3.0	20	51
10	17	7.3	3.0	20	3.5	4.0	11	38	30	3.5	15	36
11	26	7.0	3.5	15	6.0	4.0	10	16	32	4.0	12	26
12	27	7.3	3.5	12	11	3.5	9.8	14	30	4.5	9.5	19
13	31	7.2	3.5	9.5	14	3.5	9.2	28	26	5.5	8.3	17
14	33	7.1	4.0	7.5	15	3.5	8.7	34	26	7.0	9.4	15
15	48	7.6	4.0	6.0	15	3.5	8.4	30	24	10	15	13
16	61	8.2	4.0	5.0	16	3.5	9.8	26	16	18	20	11
17	39	10	4.0	4.5	15	3.5	12	22	13	25	17	21
18	26	9.9	4.0	4.0	12	3.5	13	16	11	19	14	32
19	23	9.2	3.5	4.0	10	3.5	12	16	10	14	12	36
20	22	8.2	3.5	3.5	9.0	3.0	12	18	9.0	12	13	26
21	19	7.6	3.5	3.0	9.0	3.0	13	22	8.5	15	12	22
22	16	7.0	3.5	3.0	10	3.0	12	30	7.5	13	14	20
23	14	6.0	3.0	3.0	11	3.0	12	34	6.5	11	18	16
24	13	5.5	3.5	2.5	10	3.0	11	26	5.5	9.0	27	13
25	12	5.0	4.0	2.5	10	3.0	10	20	7.0	7.6	27	11
26	12	4.5	4.5	2.5	9.5	3.5	11	20	15	6.6	32	9.3
27	14	4.5	5.0	2.5	8.9	3.5	13	22	10	5.8	27	8.2
28	17	4.0	5.0	2.5	8.2	3.5	15	26	4.0	5.1	19	7.3
29	32	3.5	5.0	2.0	------	3.5	24	30	3.0	4.5	15	6.5
30	41	3.5	5.0	2.0	------	4.0	24	32	4.0	4.1	12	6.8
31	31	------	5.0	2.0	------	4.0	------	34	------	3.7	10	------
TOTAL	921	257.8	111.5	302.5	223.1	141.7	312.9	749	534.0	263.9	520.6	649.1
MEAN	29.7	8.59	3.60	9.76	7.97	4.57	10.4	24.2	17.8	8.51	16.8	21.6
MAX	98	23	5.0	70	16	7.8	24	38	32	25	34	51
MIN	12	3.5	2.5	2.0	2.0	3.0	4.0	14	3.0	3.0	3.3	6.5
CFSM	7.50	2.17	.91	2.46	2.01	1.15	2.63	6.11	4.49	2.15	4.24	5.45
IN.	8.65	2.42	1.05	2.84	2.10	1.33	2.94	7.04	5.02	2.48	4.89	6.10
AC-FT	1,830	511	221	600	443	281	621	1,490	1,060	523	1,030	1,290

CAL YR 1970 TOTAL 6,157.0 MEAN 16.9 MAX 210 MIN 1.3 CFSM 4.27 IN 57.84 AC-FT 12,210
WTR YR 1971 TOTAL 4,987.1 MEAN 13.7 MAX 98 MIN 2.0 CFSM 3.46 IN 46.85 AC-FT 9,890

PEAK DISCHARGE (BASE, 100 CFS).--No peaks above base.

NOTE.--No Gage-height record May 7 to July 16.

15054200 Herbert River near Auke Bay

LOCATION.--Lat 58°31'26", long 134°47'40", in SW¼NE¼ sec.2, T.39 S., R.64 E., on the downstream side of right bank pier of State Highway 7 bridge, 0.2 mile upstream from mouth at Eagle River and 14 miles northeast of Auke Bay.

DRAINAGE AREA.--56.9 sq mi, approximately.

PERIOD OF RECORD.--October 1966 to September 1971 (discontinued).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is -3 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 566 cfs (135.08 inches per year, 410,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,350 cfs Oct. 1 (gage height, 19.81 ft) occurred on recession following peak of Sept. 29, 1970; maximum peak discharge, 3,300 cfs Aug. 3; minimum daily discharge, 25 cfs Dec. 19-24.
Period of record: Maximum discharge, 6,280 cfs Sept. 18, 1967 (gage height, 22.40 ft); minimum daily, 14 cfs Feb. 28 to Mar. 8, 1969.

REMARKS.--Records fair except those for winter period and period of no gage-height record, which are poor. Large diurnal fluctuation caused by glacier melt at the source. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,760	600	40	45	35	45	30	83	422	860	2,100	1,810
2	1,850	750	40	45	35	40	35	90	418	855	2,200	1,560
3	1,830	860	35	40	35	40	45	152	322	845	2,550	2,400
4	1,380	820	35	40	35	40	60	182	322	810	2,100	2,640
5	862	665	35	50	40	35	72	114	446	870	1,850	2,370
6	620	446	30	150	45	35	72	132	700	940	1,560	2,020
7	550	284	30	1,000	50	35	72	514	740	1,020	2,220	1,800
8	500	232	30	500	60	35	72	272	820	1,160	1,830	1,530
9	500	192	30	300	80	35	71	134	855	1,460	1,600	1,230
10	600	197	30	80	90	35	76	137	880	1,580	1,620	805
11	800	240	35	60	100	35	76	558	905	1,650	1,660	750
12	700	282	40	50	120	30	76	426	925	1,500	1,710	900
13	700	307	45	45	120	30	79	398	780	1,290	1,840	800
14	750	293	40	45	120	30	128	320	695	1,180	2,050	900
15	800	333	35	40	110	30	96	245	660	1,360	2,150	715
16	500	263	30	40	100	30	74	176	590	1,900	2,290	700
17	350	199	30	40	90	30	74	154	590	2,070	1,850	1,230
18	300	145	30	40	90	30	74	162	615	2,000	1,710	1,540
19	250	166	25	40	100	30	74	188	700	1,800	2,440	1,670
20	230	277	25	40	110	30	72	198	845	1,700	2,940	1,280
21	200	393	25	35	100	30	72	292	1,010	1,900	2,270	1,250
22	180	200	25	35	90	30	72	270	1,040	2,100	2,300	1,170
23	170	150	25	35	80	30	86	186	1,090	1,900	2,730	920
24	160	100	25	35	70	30	114	330	1,210	1,700	2,730	780
25	150	90	35	35	60	30	154	372	1,260	1,500	1,900	554
26	150	70	55	35	55	30	218	384	1,360	1,400	1,690	418
27	150	60	80	35	55	30	218	510	1,180	1,700	1,260	333
28	180	55	70	35	50	30	162	486	1,010	2,000	1,090	275
29	250	50	60	35	------	30	108	615	905	2,100	1,090	230
30	400	45	55	35	------	30	86	378	860	2,100	1,340	198
31	500	------	50	35	------	30	------	351	------	2,000	1,510	------
TOTAL	19,322	8,764	1,175	3,075	2,125	1,010	2,718	8,809	24,155	47,250	60,180	34,778
MEAN	623	292	37.9	99.2	75.9	32.6	90.6	284	805	1,524	1,941	1,159
MAX	2,760	860	80	1,000	120	45	218	615	1,360	2,100	2,940	2,640
MIN	150	45	25	35	35	30	30	83	322	810	1,090	198
CFSM	10.9	5.13	.67	1.74	1.33	.57	1.59	4.99	14.1	26.8	34.1	20.4
IN.	12.63	5.73	.77	2.01	1.39	.66	1.78	5.76	15.79	30.89	39.34	22.74
AC-FT	38,330	17,380	2,330	6,100	4,210	2,000	5,390	17,470	47,910	93,720	119,400	68,980

CAL YR 1970 TOTAL 201,736 MEAN 553 MAX 4,500 MIN 25 CFSM 9.72 IN 131.89 AC-FT 400,100
WTR YR 1971 TOTAL 213,361 MEAN 585 MAX 2,940 MIN 25 CFSM 10.3 IN 139.49 AC-FT 423,200

NOTE.--No gage-height record July 18 to Aug. 2.

15054600 Bridget Cove Tributary near Auke Bay

LOCATION.--Lat 58°37'14", long 134°56'08", on left bank, 300 ft upstream from mouth at Bridget Cove in Lynn Canal, and 19 miles northwest of Auke Bay.

DRAINAGE AREA.--0.95 sq mi.

PERIOD OF RECORD.--October 1970 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (from topographic map).

EXTREMES.--Maximum discharge, 68 cfs May 6 (gage height, 2.67 ft); maximum gage height, 2.82 ft Jan. 8, 9 (backwater from ice); minimum daily discharge, 0.3 cfs Jan. 4, 5.
Period of record: Maximum discharge, 68 cfs May 6, 1971 (gage height, 2.67 ft); maximum gage height, 2.82 ft Jan. 8, 9, ice effected; minimum daily, 0.3 cfs Jan. 4-5, 1971.

REMARKS.--Records fair except those for winter periods and those for the period of no gage-height record, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	7.0	.60	.50	.50	1.7	1.4	6.6	3.4	.90	1.9	4.5
2	18	7.7	.60	.40	.50	1.2	1.6	9.4	2.8	.90	2.5	3.5
3	10	4.1	.60	.40	.50	1.0	3.6	15	2.8	.90	3.1	13
4	4.7	3.1	.50	.30	.60	1.0	7.3	8.8	2.3	.80	1.7	8.1
5	3.2	2.5	.50	.30	.60	.90	4.7	5.9	2.3	.80	1.2	12
6	2.3	2.0	.50	.40	.70	.90	6.6	23	2.2	.80	1.0	5.5
7	2.0	1.9	.60	.80	.70	.80	7.0	12	2.2	.80	2.5	13
8	2.0	1.9	.60	1.0	.70	.80	3.8	5.0	2.2	1.0	1.5	8.4
9	1.9	1.7	.70	4.0	.80	.80	2.8	3.5	2.1	1.0	1.1	5.7
10	3.3	1.7	.80	4.0	1.0	.80	2.5	4.8	2.0	1.0	1.0	3.8
11	3.5	2.0	.90	1.5	1.7	.80	2.4	8.0	1.9	.90	1.0	4.5
12	2.4	3.2	.90	1.0	2.7	.70	3.2	7.2	1.8	.60	.90	8.4
13	2.0	2.4	1.0	.90	11	.70	9.9	6.5	1.6	.60	.80	4.1
14	1.9	2.9	1.0	.80	12	.70	13	4.4	1.5	.60	.80	2.9
15	10	8.1	1.0	.70	11	.70	5.5	3.6	1.4	.60	.90	2.1
16	6.6	3.8	1.0	.60	10	.70	3.8	3.5	1.3	1.0	.80	2.0
17	3.3	2.8	.90	.60	10	.70	3.8	4.0	1.2	1.7	.80	2.0
18	2.4	2.2	.80	.60	8.0	.70	5.1	5.0	1.1	2.5	.80	2.8
19	5.9	2.0	.80	.60	5.8	.70	4.7	5.8	1.0	2.3	4.7	3.3
20	4.7	1.4	.70	.60	4.2	.70	3.5	7.0	1.0	1.6	9.8	2.3
21	2.9	1.2	.70	.50	3.6	.70	3.1	6.0	1.0	1.7	5.1	2.0
22	2.4	1.1	.70	.50	3.2	.80	3.5	4.0	.90	1.9	5.1	1.8
23	2.0	1.0	.80	.50	3.2	.80	6.6	3.4	1.0	2.4	12	1.6
24	2.0	.90	.90	.50	3.4	.80	8.1	3.8	1.2	2.4	19	1.5
25	2.0	.90	.80	.50	4.2	.80	8.1	4.5	1.3	2.3	8.1	1.2
26	2.2	.80	1.0	.50	4.3	.90	13	5.0	1.3	1.9	4.9	1.1
27	13	.80	1.1	.50	2.8	.90	11	6.0	1.3	1.8	3.3	1.0
28	4.9	.70	1.0	.50	2.1	1.0	8.4	6.0	1.3	1.6	2.3	1.0
29	18	.70	1.0	.50	------	1.1	6.6	4.2	1.0	1.4	1.9	.90
30	18	.60	.80	.50	------	1.1	5.5	3.4	.90	1.3	1.6	1.0
31	7.3	------	.50	.50	------	1.2	------	3.5	------	1.4	1.4	------
TOTAL	174.2	73.10	24.30	25.50	109.80	27.10	170.1	198.8	49.30	41.40	103.50	125.00
MEAN	5.62	2.44	.78	.82	3.92	.87	5.67	6.41	1.64	1.34	3.34	4.17
MAX	18	8.1	1.1	4.0	12	1.7	13	23	3.4	2.5	19	13
MIN	1.9	.60	.50	.30	.50	.70	1.4	3.4	.90	.60	.80	.90
CFSM	5.92	2.57	.82	.86	4.13	.92	5.97	6.75	1.73	1.41	3.52	4.39
IN.	6.82	2.86	.95	1.00	4.30	1.06	6.66	7.78	1.93	1.62	4.05	4.89
AC-FT	346	145	48	51	218	54	337	394	98	82	205	248

WTR YR 1971 TOTAL 1,122.10 MEAN 3.07 MAX 23 MIN .30 CFSM 3.23 IN 43.94 AC-FT 2,230

NOTE.--No gage-height record June 25 to Aug. 5.

15054990 Davies Creek near Auke Bay

LOCATION.--Lat 58°39'06", long 134°53'07", in NE¼NW¼ sec.20, T.37 S., R.63 E., in Tongass National Forest, on right bank 0.9 mile upstream from confluence with Cowee Creek, about 1 mile southeast of head of Echo Cove, and 20 miles northwest of Auke Bay.

DRAINAGE AREA.--15.2 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 120 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 890 cfs Sept. 7 (gage height, 7.15 ft), from rating curve extended above 500 cfs; maximum gage height, 7.50 ft Jan. 6 (backwater from ice); minimum daily discharge, 2.9 cfs Mar. 12-21.
Period of record: Maximum discharge, 1,430 cfs Nov. 28, 1969 (gage height, 7.82 ft), from rating curve extended above 500 cfs; minimum daily, 2.9 cfs Mar. 12-21, 1971.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses, water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	177	8.5	5.6	9.7	13	11	32	159	124	288	232
2	221	206	8.2	4.6	10	10	16	39	130	136	400	210
3	228	149	7.9	4.6	10	7.5	23	78	90	127	88	436
4	159	90	7.9	5.1	10	5.7	30	52	162	115	334	334
5	96	55	8.1	20	10	4.8	27	30	225	110	250	360
6	57	43	8.5	150	11	4.0	33	69	305	110	232	281
7	36	34	9.2	100	11	3.6	35	165	305	120	368	368
8	24	29	10	70	13	3.4	33	55	295	140	246	232
9	19	24	12	30	18	3.2	28	34	269	150	214	174
10	29	22	13	20	32	3.0	27	90	228	150	217	127
11	40	21	15	14	140	3.0	26	283	195	125	221	139
12	29	33	15	12	170	2.9	26	177	168	90	217	165
13	23	32	16	11	160	2.9	35	162	130	80	264	118
14	21	30	16	10	160	2.9	48	93	118	85	288	112
15	39	57	15	9.7	160	2.9	42	65	133	90	368	80
16	61	54	13	9.5	140	2.9	36	59	165	150	302	103
17	40	43	12	9.5	100	2.9	30	61	168	300	241	221
18	25	33	12	9.3	77	2.9	30	83	180	280	214	206
19	19	19	12	9.2	63	2.9	27	109	214	230	427	165
20	16	59	12	9.2	53	2.9	25	98	246	220	409	143
21	13	139	12	9.2	46	2.9	25	152	269	240	305	174
22	11	139	12	9.0	46	3.0	24	103	246	260	346	162
23	8.9	16	13	9.0	60	3.0	28	74	255	280	409	136
24	7.5	15	14	9.0	69	3.1	35	76	246	290	360	106
25	8.0	13	16	9.0	45	3.2	50	88	228	300	246	80
26	7.5	12	15	9.1	32	3.3	57	98	225	305	237	55
27	8.9	11	14	9.2	25	3.5	56	100	183	292	171	54
28	14	10	13	9.2	18	3.6	48	139	159	298	139	45
29	86	9.3	8.9	9.4	------	4.0	34	146	152	298	139	37
30	241	8.9	7.0	9.4	------	8.0	27	93	127	285	177	36
31	180	------	6.5	9.6	------	9.6	------	88	------	285	174	------
TOTAL	2,076.8	1,583.2	362.7	614.4	1,698.7	134.5	972	2,991	5,975	6,065	8,291	5,091
MEAN	67.0	52.8	11.7	19.8	60.7	4.34	32.4	96.5	199	196	267	170
MAX	309	206	16	150	170	13	57	283	305	305	427	436
MIN	7.5	8.9	6.5	4.6	9.7	2.9	11	30	90	80	88	36
CFSM	4.41	3.47	.77	1.30	3.99	.29	2.13	6.35	13.1	12.9	17.6	11.2
IN.	5.08	3.87	.89	1.50	4.16	.33	2.38	7.32	14.62	14.84	20.29	12.46
AC-FT	4,120	3,140	719	1,220	3,370	267	1,930	5,930	11,850	12,030	16,450	10,100

CAL YR 1970 TOTAL 34,591.5 MEAN 94.8 MAX 910 MIN 6.5 CFSM 6.24 IN 84.66 AC-FT 68,610
WTR YR 1971 TOTAL 35,855.3 MEAN 98.2 MAX 436 MIN 2.9 CFSM 6.46 IN 87.75 AC-FT 71,120

15056100 Skagway River at Skagway

LOCATION.--Lat 59°27'27", long 135°19'23", on right bank, on north end of Taiya Inlet, at Skagway, 175 ft downstream from old bridge site, 1.1 miles downstream from highway bridge.

DRAINAGE AREA.--145 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 8 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 502 cfs (47.01 inches per year, 363,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,740 cfs June 21 (gage height, 5.48 ft); minimum daily, 18 cfs Jan. 11 to Mar. 31. Period of record: Maximum discharge, 13,600 cfs Sept. 15, 1967 (gage height, 8.50 ft), from rating curve extended above 4,000 cfs on basis of a contracted opening measurement of peak flow; minimum, 9.2 cfs Apr. 8, 1965 (gage height, 0.28 ft).

REMARKS.--Records fair except those for winter periods, which are poor. Large diurnal fluctuations caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,520	725	40	20	18	18	19	168	685	532	1,760	968
2	1,320	838	40	20	18	18	20	185	727	490	2,090	926
3	1,580	615	40	20	18	18	21	196	508	432	2,040	1,300
4	862	460	40	20	18	18	22	204	580	574	1,550	1,010
5	532	335	40	20	18	18	25	172	886	741	1,250	734
6	427	272	35	20	18	18	28	185	1,370	1,160	1,130	664
7	355	236	35	20	18	18	32	228	1,720	1,360	1,300	646
8	320	196	35	20	18	18	35	182	1,940	1,530	1,190	650
9	282	165	35	20	18	18	38	156	1,940	1,770	1,370	601
10	335	152	35	20	18	18	40	168	2,210	2,070	1,670	550
11	438	146	30	18	18	18	43	262	1,880	1,850	1,730	427
12	330	146	30	18	18	18	46	340	1,540	1,740	1,740	508
13	325	135	30	18	18	18	50	390	1,060	1,620	1,480	449
14	315	126	30	18	18	18	55	315	1,060	1,790	1,400	444
15	335	121	30	18	18	18	60	263	1,280	1,900	1,570	385
16	286	100	30	18	18	18	70	258	1,420	2,340	1,960	400
17	241	90	30	18	18	18	80	272	1,730	1,880	1,400	720
18	204	80	30	18	18	18	90	305	1,920	1,690	1,180	706
19	189	66	30	18	18	18	100	340	2,460	1,620	1,570	484
20	165	53	30	18	18	18	110	416	3,540	1,600	1,500	449
21	149	50	25	18	18	18	120	454	3,880	1,780	1,130	580
22	135	50	25	18	18	18	140	410	2,800	1,430	1,090	685
23	135	50	25	18	18	18	150	325	3,890	1,080	1,220	650
24	129	50	25	18	18	18	170	340	2,940	926	995	490
25	124	50	25	18	18	18	185	472	2,760	950	846	360
26	118	45	25	18	18	18	196	550	2,300	1,750	741	291
27	118	45	25	18	18	18	215	484	1,880	2,180	664	241
28	108	45	25	18	18	18	182	520	1,190	2,100	608	228
29	129	45	25	18	------	18	168	484	713	2,010	622	185
30	258	45	25	18	------	18	159	454	587	1,640	748	172
31	282	------	25	18	------	18	------	427	------	1,740	870	------
TOTAL	12,046	5,532	950	578	504	558	2,669	9,925	53,396	46,275	40,414	16,903
MEAN	389	184	30.6	18.6	18.0	18.0	89.0	320	1,780	1,493	1,304	563
MAX	1,580	838	40	20	18	18	215	550	3,890	2,340	2,090	1,300
MIN	108	45	25	18	18	18	19	156	508	432	608	172
CFSM	2.68	1.27	.21	.13	.12	.12	.61	2.21	12.3	10.3	8.99	3.88
IN.	3.09	1.42	.24	.15	.13	.14	.68	2.55	13.70	11.87	10.37	4.34
AC-FT	23,890	10,970	1,880	1,150	1,000	1,110	5,290	19,690	105,900	91,790	80,160	33,530

CAL YR 1970 TOTAL 174,691 MEAN 479 MAX 3,250 MIN 25 CFSM 3.30 IN 44.82 AC-FT 346,500
WTR YR 1971 TOTAL 189,750 MEAN 520 MAX 3,890 MIN 18 CFSM 3.59 IN 48.68 AC-FT 376,400

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
6-21	0530	5.48	5,740	6-25	2200	4.72	4,110
6-23	2030	5.45	5,670				

NOTE.--No gage-height record Nov. 25 to Apr. 9.

15056200 West Creek near Skagway

LOCATION.--Lat 59°31'35", long 135°21'10", on right bank 700 ft upstream from highway bridge, 0.2 mile upstream from mouth at Taiya River, and 5 miles northwest of Skagway.

DRAINAGE AREA.--43.2 sq mi.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 336 cfs (105.62 inches per year, 243,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,130 cfs Aug. 2 (gage height, 4.64 ft); minimum daily, 20 cfs Feb. 22 to Mar. 21.
Period of record: Maximum discharge, 9,800 cfs Sept. 15, 1967 (gage height, 7.75 ft), from rating curve extended above 1,400 cfs on basis of slope-area measurement of peak flow; minimum daily, 6 cfs Jan. 17-28, 1963.

REMARKS.--Records good except those for winter periods, which are poor. Some diurnal fluctuation caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	608	65	34	24	20	24	72	259	536	1,480	798
2	911	635	65	34	24	20	24	74	249	514	1,790	692
3	882	504	60	32	24	20	24	100	195	519	1,450	910
4	521	381	60	32	24	20	26	99	237	560	1,040	657
5	353	300	55	32	24	20	26	82	390	678	910	536
6	286	246	55	32	24	20	26	87	582	822	846	626
7	253	214	55	32	24	20	28	133	683	942	1,050	514
8	235	191	50	32	24	20	30	102	691	1,020	870	480
9	224	171	50	32	24	20	34	86	676	1,160	926	399
10	355	159	48	32	22	20	32	85	657	1,210	1,080	284
11	336	153	48	32	22	20	30	119	578	1,130	1,180	232
12	255	170	46	30	22	20	31	150	511	1,090	1,270	246
13	273	163	46	30	22	20	41	171	419	1,000	1,170	228
14	419	149	46	30	22	20	62	145	410	1,030	1,130	265
15	428	154	44	30	22	20	47	125	460	1,280	1,360	214
16	302	169	44	30	22	20	40	123	488	1,670	1,370	292
17	237	166	44	30	22	20	41	121	557	1,340	1,000	626
18	203	150	42	28	22	20	46	128	596	1,170	918	508
19	185	140	42	28	22	20	44	141	720	1,190	1,120	319
20	168	130	42	28	22	20	41	176	926	1,160	1,130	257
21	153	110	40	28	22	20	38	199	1,130	1,230	806	394
22	141	95	40	28	20	22	38	183	995	1,020	894	632
23	135	85	38	28	20	22	44	156	1,160	900	986	536
24	128	80	38	28	20	22	57	162	1,100	790	783	344
25	123	80	36	26	20	22	63	203	1,100	820	626	214
26	117	80	36	26	20	22	68	218	1,110	1,220	664	165
27	117	75	36	26	20	22	79	208	986	1,470	548	142
28	113	75	36	26	20	22	77	212	776	1,550	502	122
29	178	70	36	26	------	22	79	213	678	1,570	497	106
30	387	70	36	24	------	22	77	184	590	1,360	614	104
31	348	------	34	24	------	22	------	177	------	1,410	748	------
TOTAL	9,826	5,773	1,413	910	620	640	1,317	4,434	19,909	33,361	30,758	11,842
MEAN	317	192	45.6	29.4	22.1	20.6	43.9	143	664	1,076	992	395
MAX	1,060	635	65	34	24	22	79	218	1,160	1,670	1,790	910
MIN	113	70	34	24	20	20	24	72	195	514	497	104
CFSM	7.34	4.44	1.06	.68	.51	.48	1.02	3.31	15.4	24.9	23.0	9.14
IN.	8.46	4.97	1.22	.78	.53	.55	1.13	3.82	17.14	28.73	26.49	10.20
AC-FT	19,490	11,450	2,800	1,800	1,230	1,270	2,610	8,790	39,490	66,170	61,010	23,490

CAL YR 1970 TOTAL 111,634 MEAN 306 MAX 1,420 MIN 26 CFSM 7.08 IN 96.13 AC-FT 221,400
WTR YR 1971 TOTAL 120,803 MEAN 331 MAX 1,790 MIN 20 CFSM 7.66 IN 104.02 AC-FT 239,600

PEAK DISCHARGE (BASE, 1,650 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
7-16	1115	4.40	1,840	8-2	1930	4.64	2,130
7-29	0400	4.34	1,730	8-15	1830	4.31	1,660

15056210 Taiya River near Skagway

LOCATION.--Lat 59°30'44", long 135°20'40", in NE¼SE¼ sec.22, T.27 S., R.59 E., on the left bank at the upstream side of highway bridge, 1 mile downstream from West Creek, 2.2 miles above mouth of Taiya Inlet, and 4 miles north of Skagway.

DRAINAGE AREA.--179 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about 20 ft (from observations of high tides).

EXTREMES.--Current year: Maximum discharge, 8,200 cfs Aug. 2 (gage height, 17.50 ft); minimum, 33 cfs Apr. 10 (gage height, 12.85 ft).

Period of record: Maximum discharge, 8,200 cfs Aug. 2, 1971 (gage height, 17.50 ft); minimum, 33 cfs Apr. 10, 1971 (gage height, 12.85 ft).

Flood of September 1967 overflowed banks and probably reached a peak of over 25,000 cfs.

REMARKS.--Records good except those for winter period, which are poor. Large diurnal fluctuations caused by glacier melt at the source. Records of chemical analyses, water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,520	1,790	150	100	90	80	80	170	1,020	2,200	6,150	2,880
2	2,810	1,940	150	100	90	80	100	183	1,080	2,060	7,000	2,680
3	3,080	1,470	140	100	90	80	150	250	780	2,000	6,240	3,320
4	1,660	1,080	140	100	90	80	130	270	1,000	2,220	4,650	2,500
5	1,040	777	130	100	90	80	100	206	1,620	2,840	4,000	1,940
6	818	598	130	100	80	80	95	220	2,340	3,450	3,550	2,120
7	698	483	120	100	80	80	89	394	2,530	4,000	4,020	1,780
8	611	411	120	100	80	80	51	276	2,600	4,380	3,580	1,660
9	553	356	110	100	80	80	44	215	2,360	4,650	4,050	1,500
10	997	332	110	100	80	80	38	210	2,620	5,250	4,680	1,100
11	1,060	314	105	95	80	80	38	411	2,280	4,860	5,040	1,070
12	754	332	105	95	80	80	49	506	1,700	4,770	5,550	1,160
13	772	320	105	95	80	80	72	602	1,560	4,400	4,860	1,150
14	955	281	100	95	80	80	146	450	1,580	4,680	4,650	1,300
15	1,120	280	100	95	80	80	100	368	1,660	5,760	5,100	1,060
16	839	270	100	95	80	80	80	338	1,960	6,600	5,280	1,190
17	623	250	100	95	80	80	86	326	2,160	5,820	3,980	2,100
18	514	240	100	95	80	80	94	350	2,440	5,250	3,580	1,720
19	448	230	100	95	80	80	94	387	2,740	5,250	4,120	1,220
20	395	220	100	95	80	80	86	466	3,380	5,070	4,500	1,150
21	348	210	100	95	80	80	80	628	4,710	5,340	3,180	1,520
22	313	200	100	94	80	80	83	610	4,180	4,590	3,320	2,180
23	298	190	100	94	80	80	92	490	4,890	3,880	3,720	1,970
24	278	190	100	95	80	80	130	498	4,720	3,450	3,050	1,430
25	262	180	100	95	80	80	158	691	4,500	3,450	2,440	1,040
26	253	180	100	95	80	80	179	830	4,530	4,860	2,200	800
27	250	170	100	95	80	80	235	760	4,100	5,910	1,860	646
28	253	170	100	95	80	80	210	820	3,250	6,150	1,740	522
29	347	160	100	95	------	80	197	790	2,680	6,300	1,760	443
30	878	160	100	95	------	80	183	664	2,400	5,850	2,060	422
31	918	------	100	95	------	80	------	619	------	6,000	2,620	------
TOTAL	27,665	13,784	3,415	2,993	2,290	2,480	3,759	13,998	79,370	141,290	122,530	45,573
MEAN	892	459	110	96.5	81.8	80.0	109	452	2,646	4,558	3,953	1,519
MAX	3,520	1,940	150	100	90	80	235	830	4,890	6,600	7,000	3,320
MIN	250	160	100	94	80	80	38	170	780	2,000	1,740	422
CFSM	4.98	2.56	.61	.54	.46	.45	.61	2.53	14.8	25.5	22.1	8.49
IN.	5.75	2.86	.71	.62	.48	.52	.68	2.91	16.49	29.36	25.46	9.47
AC-FT	54,870	27,340	6,770	5,940	4,540	4,920	6,480	27,770	157,400	280,200	243,000	90,390

CAL YR 1970 TOTAL 366,587 MEAN 1,004 MAX 4,950 MIN 65 CFSM 5.61 IN 76.18 AC-FT 727,100
WTR YR 1971 TOTAL 458,657 MEAN 1,257 MAX 7,000 MIN 38 CFSM 7.02 IN 95.32 AC-FT 909,700

15059500 Whipple Creek near Ward Cove

LOCATION.--Lat 55°26'30", long 131°47'38", on Revillagigedo Island, on left bank, 350 ft upstream from old State highway bridge on North Tongass Highway, about 0.35 mile upstream from mouth at Tongass Narrows, 2 miles south of village of Knudsen Cove, 2.6 miles northwest of Ward Cove Post Office.

DRAINAGE AREA.--5.29 sq mi.

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 90 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,640 cfs Aug. 19 (gage height, 6.91 ft), from rating curve extended above 600 cfs; minimum 2.1 cfs July 31 (gage height, 1.39 ft).
Period of record: Maximum discharge, 2,830 cfs Nov. 19, 1968 (gage height, 8.73 ft), from rating curve extended above 600 cfs; minimum daily, 1.8 cfs Jan. 28 to Feb. 3, 1969.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	167	5.8	4.2	18	10	99	52	41	21	2.3	8.2
2	6.8	33	6.5	5.0	12	49	45	34	36	15	11	13
3	33	23	5.6	5.8	9.3	23	259	44	31	13	7.9	131
4	36	18	7.0	6.0	9.3	11	119	44	33	19	11	53
5	7.9	15	9.0	9.0	11	9.3	93	31	38	18	6.3	84
6	4.8	13	12	16	7.9	96	118	37	38	14	4.4	43
7	10	12	17	35	7.0	34	46	116	41	12	4.8	230
8	31	10	24	22	7.0	27	40	40	33	11	4.4	41
9	8.9	10	28	19	19	169	27	26	28	10	3.5	33
10	13	46	35	15	39	56	22	34	47	9.3	3.1	87
11	8.2	112	42	15	54	63	23	41	56	8.2	2.8	110
12	6.0	52	58	13	268	35	22	72	38	7.3	2.6	198
13	4.4	42	40	17	124	33	30	52	30	6.8	2.5	55
14	3.7	79	30	19	226	20	76	36	26	6.3	2.3	31
15	5.8	29	19	24	68	22	29	29	24	6.0	2.3	22
16	11	20	14	27	41	15	21	26	22	5.5	2.6	18
17	105	19	11	52	26	12	19	25	21	5.3	5.3	15
18	98	21	9.0	196	29	12	65	99	22	4.8	46	13
19	109	18	7.6	51	24	18	36	61	22	4.6	742	12
20	14	13	8.0	25	105	13	54	37	24	4.4	79	10
21	16	11	10	21	173	10	36	38	20	4.2	165	9.3
22	37	9.6	13	18	49	8.9	24	34	38	4.0	59	8.2
23	21	8.6	20	14	156	8.6	28	176	84	3.5	230	7.5
24	66	7.5	32	12	28	8.6	31	115	34	3.1	70	7.0
25	25	6.8	10	13	17	8.6	38	51	34	2.9	38	6.5
26	67	7.5	8.0	11	13	6.5	53	42	24	2.8	25	5.8
27	216	6.0	6.6	27	11	6.5	45	38	19	2.8	18	5.8
28	58	6.8	5.7	33	11	38	28	38	16	2.5	17	6.3
29	338	7.3	5.0	13	------	30	23	36	18	2.3	15	5.3
30	62	6.3	4.5	10	------	13	57	31	28	2.2	12	5.0
31	106	------	4.2	8.9	------	19	------	33	------	2.1	12	------
TOTAL	1,539.5	829.4	507.5	756.9	1,562.5	885.0	1,606	1,568	966	233.9	1,607.1	1,273.9
MEAN	49.7	27.6	16.4	24.4	55.8	28.5	53.5	50.6	32.2	7.55	51.8	42.5
MAX	338	167	58	196	268	169	259	176	84	21	742	230
MIN	3.7	6.0	4.2	4.2	7.0	6.5	19	25	16	2.1	2.3	5.0
CFSM	9.40	5.22	3.10	4.61	10.5	5.39	10.1	9.57	6.09	1.43	9.79	8.03
IN.	10.83	5.83	3.57	5.32	10.99	6.22	11.29	11.03	6.79	1.64	11.30	8.96
AC-FT	3,050	1,650	1,010	1,500	3,100	1,760	3,190	3,110	1,920	464	3,190	2,530

CAL YR 1970 TOTAL 13,249.7 MEAN 36.3 MAX 338 MIN 3.7 CFSM 6.86 IN 93.17 AC-FT 26,280
WTR YR 1971 TOTAL 13,335.7 MEAN 36.5 MAX 742 MIN 2.1 CFSM 6.90 IN 93.78 AC-FT 26,450

NOTE.--No gage-height record Dec. 3 to Jan. 10.

15072000 Fish Creek near Ketchikan

LOCATION.--Lat 55°23'30", long 131°11'40", on Revillagigedo Island in South Tongass National Forest, on right bank 50 ft upstream from outlet of Low Lake, 600 ft upstream from mouth at Thorne Arm, and 18 miles east of Ketchikan.

DRAINAGE AREA.--32.1 sq mi, excludes that of Granite Lake drainage basin.

PERIOD OF RECORD.--May 1915 to October 1935, October 1938 to current year. Prior to October 1945, monthly discharge only. Prior to January 1921, published as "near Sea Level, Revillagigedo Island".

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (by barometer). Prior to October 1935, at different datum.

AVERAGE DISCHARGE.--53 years, 424 cfs (179.37 inches per year, 307,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,060 cfs Aug. 25 (gage height, 3.27 ft); minimum, 45 cfs Dec. 6, 7.
Period of record: Maximum discharge, 5,400 cfs Oct. 15, 1961 (gage height, 8.85 ft), from rating curve extended above 3,600 cfs; minimum daily, 20 cfs Sept. 9, 10, 1928.

REMARKS.--Records excellent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	796	913	70	80	135	141	213	395	508	584	242	247
2	567	689	60	75	136	164	275	373	576	566	238	245
3	467	470	60	70	133	167	304	359	624	493	272	496
4	621	337	55	70	122	150	459	357	618	455	317	1,450
5	527	255	50	110	110	137	474	363	624	457	296	1,760
6	391	203	45	340	100	173	525	372	669	456	244	1,720
7	319	168	45	740	92	193	540	574	723	437	207	1,570
8	352	144	50	740	86	184	462	741	787	438	180	1,380
9	381	127	55	460	82	258	373	637	770	482	159	1,040
10	382	145	70	360	97	286	303	490	755	522	144	888
11	429	268	95	260	120	281	278	412	845	519	133	1,100
12	402	434	120	200	423	256	254	419	1,030	490	123	1,680
13	368	550	150	160	592	257	225	513	949	447	115	1,710
14	337	695	160	140	891	218	273	538	788	406	108	1,140
15	284	589	160	116	882	198	304	488	699	377	102	715
16	307	429	150	102	772	164	284	422	640	357	101	472
17	429	346	140	103	536	137	249	377	584	339	107	340
18	754	319	120	307	401	124	280	421	567	344	148	260
19	1,070	295	110	424	298	125	312	512	625	365	1,130	211
20	801	255	100	432	307	114	361	512	700	378	1,660	176
21	567	206	90	344	417	103	347	474	709	380	1,350	150
22	468	168	85	270	365	92	293	467	697	370	1,440	131
23	403	141	80	215	452	87	255	557	889	351	1,360	120
24	374	121	80	173	370	82	233	893	1,010	324	1,800	110
25	308	107	100	143	286	77	227	973	875	292	1,960	100
26	270	97	110	128	241	74	253	810	762	275	1,580	92
27	506	88	110	131	195	70	318	667	619	270	930	87
28	689	81	100	156	159	86	357	567	521	277	581	83
29	1,140	79	90	162	------	117	354	538	473	282	417	78
30	1,640	75	90	154	------	110	396	515	515	278	315	74
31	1,080	------	80	139	------	115	------	491	------	263	259	------
TOTAL	17,429	8,794	2,880	7,304	8,800	4,740	9,781	16,227	21,151	12,274	18,018	19,625
MEAN	562	293	92.9	236	314	153	326	523	705	396	581	654
MAX	1,640	913	160	740	891	286	540	973	1,030	584	1,960	1,760
MIN	270	75	45	70	82	70	213	357	473	263	101	74
CFSM	17.5	9.13	2.89	7.35	9.78	4.77	10.2	16.3	22.0	12.3	18.1	20.4
IN.	20.20	10.19	3.34	8.46	10.20	5.49	11.33	18.81	24.51	14.22	20.88	22.74
AC-FT	34,570	17,440	5,710	14,490	17,450	9,400	19,400	32,190	41,950	24,350	35,740	38,930

CAL YR 1970 TOTAL 152,195 MEAN 417 MAX 2,150 MIN 45 CFSM 13.0 IN 176.38 AC-FT 301,900
WTR YR 1971 TOTAL 147,023 MEAN 403 MAX 1,960 MIN 45 CFSM 12.6 IN 170.38 AC-FT 291,600

PEAK DISCHARGE (BASE, 1,800 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
8-25	1715	3.27	2,060	9-12	2345	3.11	1,870
9-05	1630	3.07	1,830				

NOTE.--No gage-height record Dec. 1 to Jan. 14.

15081500 Staney Creek near Craig

LOCATION.--Lat 55°48'57", long 133°07'58", in South Tongass National Forest, on Prince of Wales Island, on left bank, 1.3 miles upatream from mouth at Tuxekan Passage, and 23 miles north of Craig.

DRAINAGE AREA.--51.6 sq mi.

PERIOD OF RECORD.--October 1964 to current year. Published as Lester River near Craig, October 1964 to September 1966.

GAGE.--Water-stage recorder. Altitude of gage is 2 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 355 cfs (93.43 inches per year, 257,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,230 cfs Jan. 7 (gage height, 9.17 ft), but may have been higher during period of no gage-height record; minimum observed, 27 cfs July 25.
Period of record: Maximum diacharge, 24,500 cfa Oct. 18, 1964 (gage height, 13.1 ft from floodmark), from rating curve extended above 3,000 cfs; minimum daily, 8.7 cfs Aug. 22-25, 1965.

REMARKS.--Records poor. Records of chemical analysea and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	360	65	190	100	70	312	348	360	150	50	73
2	200	208	70	190	120	90	332	292	292	130	45	100
3	424	131	70	250	130	150	968	532	276	150	43	200
4	498	105	75	300	150	100	1,040	430	308	170	37	300
5	204	88	80	958	170	80	490	312	320	150	45	400
6	137	79	85	2,470	190	90	1,320	529	330	130	55	250
7	160	73	90	4,730	250	140	770	2,070	320	110	48	500
8	404	67	100	1,000	400	180	416	528	330	100	45	350
9	228	63	115	500	600	439	304	312	350	90	40	250
10	310	96	563	350	2,500	721	216	484	380	80	35	600
11	304	360	344	250	2,810	510	204	816	420	70	32	500
12	348	360	1,390	220	1,780	360	220	816	300	60	30	350
13	300	232	935	200	730	360	280	550	250	70	30	250
14	180	610	520	200	1,130	240	1,150	364	200	80	30	200
15	395	495	350	210	580	240	360	308	160	95	35	130
16	596	228	200	230	420	140	260	272	140	85	50	110
17	521	510	150	300	220	88	216	256	120	75	150	100
18	589	322	120	200	134	110	360	360	110	65	400	85
19	872	260	110	160	110	200	310	425	130	55	650	75
20	360	140	100	150	245	134	216	308	150	45	400	70
21	220	80	100	140	420	102	204	396	200	35	800	65
22	300	60	100	140	300	94	204	470	250	32	700	60
23	380	55	120	140	536	77	264	1,920	300	30	600	55
24	380	55	150	160	220	73	304	700	200	28	500	50
25	224	55	600	220	125	73	364	514	170	27	400	45
26	333	55	300	400	88	79	526	360	150	28	292	40
27	1,390	55	250	200	67	79	500	304	110	30	200	38
28	963	55	200	150	65	170	320	445	150	38	125	36
29	1,440	60	200	100	------	610	248	425	210	30	125	34
30	658	65	190	90	------	292	280	292	180	33	96	40
31	312	------	190	95	------	160	------	276	------	40	77	------
TOTAL	13,942	5,382	7,932	14,893	14,590	6,251	12,958	16,414	7,166	2,311	6,165	5,356
MEAN	450	179	256	480	521	202	432	529	239	74.5	199	179
MAX	1,440	610	1,390	4,730	2,810	721	1,320	2,070	420	170	800	600
MIN	137	55	65	90	65	70	204	256	110	27	30	34
CFSM	8.72	3.47	4.96	9.30	10.1	3.91	8.37	10.3	4.63	1.44	3.86	3.47
IN.	10.05	3.88	5.72	10.74	10.52	4.51	9.34	11.83	5.17	1.67	4.44	3.86
AC-FT	27,650	10,680	15,730	29,540	28,940	12,400	25,700	32,560	14,210	4,580	12,230	10,620

CAL YR 1970 TOTAL 113,080 MEAN 310 MAX 2,760 MIN 40 CFSM 6.01 IN 81.52 AC-FT 224,300
WTR YR 1971 TOTAL 113,360 MEAN 311 MAX 4,730 MIN 27 CFSM 6.03 IN 81.72 AC-FT 224,800

PEAK DISCHARGE (BASE, 8,500 CFS).--No peaks above base.

NOTE.--No gage-height record June 6 to Aug. 26.

15081800 North Branch Trocadero Creek near Hydaburg

LOCATION.--Lat 55°21'41", long 132°52'20", in S½SE¼ sec.13, T.75 S., R.82 E., on Prince of Wales Island, in Tongass National Forest, on right bank, 0.2 mile downstream from unnamed tributary, 0.5 mile upstream from mouth at Trocadero Bay, and 11 miles north of Hydaburg.

DRAINAGE AREA.--17.4 sq mi.

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is approximately 10 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 3,800 cfs Feb. 12 (gage height, 6.10 ft), from rating curve extended above 1,100 cfs; maximum gage height, 6.19 ft Jan. 18 (backwater from ice); minimum daily discharge, 4.7 cfs Aug. 12, 13.
Period of record: Maximum discharge, 4,720 cfs Sept. 26, 1970 (gage height, 6.59 ft), from rating curve extended above 1,100 cfs; minimum daily, 3.8 cfs Jan. 30, 1969.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	228	14	17	24	80	156	135	154	74	5.9	35
2	63	59	15	18	26	80	111	127	143	55	8.0	50
3	373	35	18	19	32	38	355	260	147	51	9.3	80
4	155	26	24	20	36	36	274	166	177	133	9.0	150
5	53	22	28	24	40	36	247	137	205	203	7.7	350
6	37	19	36	34	46	36	463	226	191	62	6.5	340
7	126	17	48	150	55	42	182	636	221	44	6.4	250
8	186	15	90	70	70	41	150	140	150	40	7.5	200
9	72	16	231	50	80	288	102	78	172	35	6.5	150
10	240	449	336	40	308	133	83	165	192	30	5.9	400
11	138	456	212	36	134	118	92	306	166	28	5.2	600
12	285	175	490	28	1,500	69	96	304	126	25	4.7	500
13	136	274	306	26	270	62	130	171	135	23	4.7	350
14	69	273	131	26	546	43	305	136	133	20	5.5	200
15	137	123	70	26	251	40	108	107	128	25	55	140
16	146	84	42	28	204	39	78	106	99	50	82	100
17	311	260	38	30	98	26	73	94	91	40	59	90
18	394	169	34	34	121	55	119	246	97	30	140	75
19	248	79	34	55	58	76	84	136	96	25	807	65
20	91	33	32	50	171	50	74	123	99	20	318	60
21	105	20	32	46	250	35	62	184	109	18	296	50
22	402	16	34	40	171	29	112	163	170	15	225	45
23	369	15	50	41	209	28	122	414	318	13	215	40
24	183	14	50	40	85	39	121	263	110	12	234	38
25	58	13	32	55	40	32	161	193	133	11	182	35
26	527	12	26	80	34	27	233	140	87	10	99	32
27	416	12	22	120	36	24	183	158	65	8.6	60	28
28	283	12	19	100	40	148	110	244	55	7.9	45	26
29	923	13	18	50	------	132	70	151	68	7.2	62	24
30	216	13	17	30	------	61	132	137	117	6.5	35	22
31	214	------	17	22	------	71	------	167	------	6.1	25	------
TOTAL	7,061	2,952	2,546	1,405	4,935	2,014	4,588	6,013	4,154	1,128.3	3,031.8	4,525
MEAN	228	98.4	82.1	45.3	176	65.0	153	194	138	36.4	97.8	151
MAX	923	456	490	150	1,500	288	463	636	318	203	807	600
MIN	37	12	14	17	24	24	62	78	55	6.1	4.7	22
CFSM	13.1	5.66	4.72	2.60	10.1	3.74	8.79	11.1	7.93	2.09	5.62	8.68
IN.	15.10	6.31	5.44	3.00	10.55	4.31	9.81	12.86	8.88	2.41	6.48	9.67
AC-FT	14,010	5,860	5,050	2,790	9,790	3,990	9,100	11,930	8,240	2,240	6,010	8,980

CAL YR 1970 TOTAL 52,259.0 MEAN 143 MAX 1,580 MIN 10 CFSM 8.22 IN 111.73 AC-FT 103,700
WTR YR 1971 TOTAL 44,353.1 MEAN 122 MAX 1,500 MIN 4.7 CFSM 7.01 IN 94.82 AC-FT 87,970

15085100 Old Tom Creek near Kasaan

LOCATION.--Lat 55°23'44", long 132°24'25", in SW¼NW¼ sec.6, T.75 S., R.86 E., on Prince of Wales Island, in Tongass National Forest, on left bank, 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mile downstream from unnamed tributary, and 10 miles south of Kasaan.

DRAINAGE AREA.--5.90 sq mi.

PERIOD OF RECORD.--June 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft (from topographic map).

AVERAGE DISCHARGE.--22 years, 37.8 cfs (87.00 inches per year, 27,390 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 474 cfs Oct. 26 (gage height, 4.91 ft), from rating curve extended above 140 cfs; minimum daily, 7.0 cfs Aug. 7-8, 10-13.
Period of record: Maximum discharge, 883 cfs Apr. 16, 1952 (gage height, 6.96 ft), from rating curve extended above 140 cfs; minimum recorded, 0.16 cfs Nov. 15, 1965 (gage height, 1.10 ft).

REMARKS.--Records good except those for winter periods, which are poor. Records of water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	98	15	17	11	30	54	41	52	32	9.6	15
2	33	56	16	15	11	54	35	37	45	27	10	15
3	36	42	16	15	10	21	117	46	44	26	10	34
4	48	34	18	15	10	14	83	46	48	30	11	49
5	32	30	23	16	10	12	79	38	56	30	9.6	37
6	26	26	30	18	10	52	172	43	54	26	7.9	32
7	31	24	45	35	10	30	80	75	60	24	7.0	80
8	41	23	70	25	11	24	78	46	55	24	7.0	55
9	30	26	120	18	12	113	52	33	59	26	7.3	57
10	28	134	80	15	16	57	37	77	67	24	7.0	127
11	27	216	64	13	24	51	32	75	52	22	7.0	78
12	23	89	154	10	130	34	30	74	46	20	7.0	144
13	21	151	115	9.2	58	27	36	58	42	19	7.0	65
14	19	124	77	9.2	93	26	64	50	41	18	7.3	41
15	21	80	52	9.3	57	32	41	41	40	18	7.6	30
16	27	51	38	9.6	36	22	32	38	37	17	7.3	25
17	77	51	30	10	24	17	28	38	38	17	8.2	21
18	127	43	24	12	29	19	32	77	38	16	15	18
19	131	36	19	80	23	20	31	52	38	16	79	15
20	60	29	17	20	56	17	30	42	41	15	130	14
21	55	25	16	17	70	15	30	49	41	14	125	12
22	166	22	15	16	46	14	37	48	49	14	52	12
23	224	19	15	15	52	14	38	104	60	13	46	11
24	87	17	17	15	32	15	34	74	41	12	45	10
25	53	16	23	17	21	14	39	64	44	11	35	10
26	190	16	19	22	17	13	54	55	36	10	27	9.2
27	198	15	17	31	19	12	53	45	32	11	23	8.9
28	100	15	16	60	30	50	38	53	29	12	20	8.6
29	283	15	15	25	------	55	32	47	29	12	20	8.2
30	114	15	15	16	------	27	35	40	44	11	17	7.3
31	82	------	16	13	------	26	------	38	------	10	16	------
TOTAL	2,434	1,538	1,207	618.3	928	927	1,533	1,644	1,358	577	787.8	1,049.2
MEAN	78.5	51.3	38.9	19.9	33.1	29.9	51.1	53.0	45.3	18.6	25.4	35.0
MAX	283	216	154	80	130	113	172	104	67	32	130	144
MIN	19	15	15	9.2	10	12	28	33	29	10	7.0	7.3
CFSM	13.3	8.69	6.59	3.37	5.61	5.07	8.66	8.98	7.68	3.15	4.31	5.93
IN.	15.35	9.70	7.61	3.90	5.85	5.84	9.67	10.37	8.56	3.64	4.97	6.62
AC-FT	4,830	3,050	2,390	1,230	1,840	1,840	3,040	3,260	2,690	1,140	1,560	2,080

CAL YR 1970 TOTAL 14,210.0 MEAN 38.9 MAX 283 MIN 5.0 CFSM 6.59 IN 89.60 AC-FT 28,190
WTR YR 1971 TOTAL 14,601.3 MEAN 40.0 MAX 283 MIN 7.0 CFSM 6.78 IN 92.06 AC-FT 28,960

PEAK DISCHARGE (BASE, 450 CFS).--Oct. 26 (2100) 474 cfs (4.91 ft).

15086600 Big Creek near Point Baker

LOCATION.--Lat 56°07'54", long 133°08'36", on Prince of Wales Island, in Tongass National Forest, on left bank, 1 mile upstream from mouth at Whale Passage, 2.5 miles downstream from small unnamed lake, and 24 miles southeast of Point Baker.

DRAINAGE AREA.--11.2 sq mi.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 91.3 cfs (110.70 inches per year, 66,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 760 cfs Oct. 29 (gage height, 3.70 ft), from rating curve extended above 300 cfs; minimum, 6.8 cfs July 31, Aug. 1.
Period of record: Maximum discharge, 2,390 cfs Sept. 3, 1966 (gage height, 5.28 ft), from rating curve extended above 300 cfs; minimum daily, 0.8 cfs Aug. 25, 28, 1965.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of chemical analyses and water temperature for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	132	15	20	18	30	65	111	80	49	7.3	54
2	146	98	22	20	18	27	66	98	76	42	10	52
3	136	76	30	20	19	25	97	161	70	40	16	80
4	111	61	30	22	20	24	121	140	68	42	14	82
5	83	50	50	70	21	23	132	112	68	52	13	76
6	56	44	41	150	22	23	206	151	69	46	12	128
7	90	37	40	350	24	23	174	364	70	38	14	191
8	136	32	36	150	30	28	123	201	70	33	17	154
9	94	30	42	100	52	44	101	132	66	30	14	128
10	119	27	79	80	79	55	82	158	76	27	12	128
11	88	31	60	60	59	55	77	179	112	24	11	156
12	73	38	120	50	196	51	83	174	114	22	10	279
13	62	38	70	35	165	45	88	138	83	19	9.8	225
14	55	56	60	30	191	38	163	119	65	18	9.8	142
15	76	62	50	26	163	44	114	98	54	22	11	98
16	100	57	40	24	148	37	96	83	46	29	31	76
17	106	94	35	22	106	30	88	75	42	27	45	60
18	123	79	30	20	89	35	108	95	35	24	81	50
19	152	68	35	20	76	38	90	114	33	22	240	43
20	112	52	40	19	98	33	75	94	33	19	176	36
21	109	42	20	18	136	28	66	98	33	18	144	33
22	111	35	18	18	111	25	59	104	60	16	264	28
23	103	28	20	18	152	22	65	278	86	15	181	26
24	98	23	25	18	103	21	70	279	80	14	150	23
25	77	21	40	17	72	19	83	220	61	12	148	21
26	79	19	30	17	57	18	109	154	51	12	118	18
27	172	17	25	17	45	18	111	125	43	11	92	17
28	406	15	23	17	35	36	96	123	36	9.8	72	16
29	520	15	21	17	------	66	83	123	38	9.2	66	14
30	320	14	21	17	------	49	100	101	65	8.2	54	15
31	188	------	20	18	------	44	------	84	------	7.3	45	------
TOTAL	4,338	1,391	1,188	1,480	2,305	1,054	2,991	4,486	1,883	757.5	2,087.9	2,449
MEAN	140	46.4	38.3	47.7	82.3	34.0	99.7	145	62.8	24.4	67.4	81.6
MAX	520	132	120	350	196	66	206	364	114	52	264	279
MIN	55	14	15	17	18	18	59	75	33	7.3	7.3	14
CFSM	12.5	4.14	3.42	4.26	7.35	3.04	8.90	12.9	5.61	2.18	6.02	7.29
IN.	14.41	4.62	3.95	4.92	7.66	3.50	9.93	14.90	6.25	2.52	6.93	8.13
AC-FT	8,600	2,760	2,360	2,940	4,570	2,090	5,930	8,900	3,730	1,500	4,140	4,860

CAL YR 1970 TOTAL 32,334.00 MEAN 88.6 MAX 520 MIN 0 CFSM 7.91 IN 107.40 AC-FT 64,130
WTR YR 1971 TOTAL 26,410.40 MEAN 72.4 MAX 520 MIN 7.3 CFSM 6.46 IN 87.72 AC-FT 52,390

PEAK DISCHARGE (BASE, 900 CFS).--No peaks above base.

15087560 No Name Creek near Petersburg

LOCATION.--Lat 56°47'31", long 132°54'33", in NW¼NW¼ sec.1, T.59 S., R.79 E., on Mitkof Island, in Tongass National Forest, on left bank, 150 ft upstream from bridge, 0.3 mile downstream from Petersburg's reservoir, 1 mile upstream from mouth at Frederick Sound, and 2 miles southeast of Petersburg.

DRAINAGE AREA.--3.17 sq mi.

PERIOD OF RECORD.--October 1970 to September 1971.

GAGE.--Water-stage recorder. Altitude of gage is about 250 ft (from topographic map).

EXTREMES.--Maximum discharge, 323 cfs Apr. 3 (gage height, 6.14 ft), from rating curve extended above 80 cfs; minimum daily, 1.1 cfs Nov. 29, 30.

REMARKS.--Records good except those for winter period and periods of no gage-height record, which are poor. Flow slightly regulated by two Petersburg water-supply reservoirs. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	1.3	1.5	1.5	2.0	3.1	34	58	39	1.2	26
2	12	8.0	2.0	1.5	1.5	1.7	7.9	28	51	31	9.4	17
3	9.0	5.0	3.0	1.5	1.5	1.6	150	66	44	27	18	136
4	6.5	4.5	4.0	3.5	1.5	1.5	63	43	46	30	5.0	77
5	4.5	3.5	3.5	10	1.7	1.4	28	32	64	32	2.4	39
6	7.0	3.0	3.0	20	1.8	1.3	53	49	73	26	1.2	34
7	10	2.5	2.5	50	2.0	1.2	34	142	77	24	15	66
8	7.0	2.3	2.5	30	3.0	1.3	15	38	68	23	12	66
9	5.0	2.2	2.2	15	4.5	1.7	10	31	60	25	4.0	50
10	9.0	2.5	4.0	8.0	2.7	2.5	7.3	61	63	20	1.7	41
11	6.0	2.7	3.0	7.0	2.0	3.0	17	73	71	14	1.2	46
12	5.0	3.0	10	5.0	3.0	2.5	28	90	55	7.1	1.2	73
13	4.0	3.5	7.0	4.0	4.0	2.0	20	64	48	1.3	1.2	68
14	3.0	4.0	5.0	3.0	5.0	1.5	55	38	42	6.6	1.2	33
15	4.0	5.0	4.0	2.5	7.0	1.7	20	33	45	24	1.2	15
16	6.0	8.0	3.0	2.2	4.0	2.0	12	32	48	35	5.1	6.7
17	7.0	6.5	2.5	2.0	3.0	3.0	10	31	47	25	8.9	3.6
18	9.0	5.5	2.3	1.8	2.5	1.2	24	33	28	13	18	6.4
19	11	4.5	2.5	1.6	3.5	1.8	13	53	50	7.9	107	14
20	9.0	3.5	3.0	1.5	5.0	2.5	9.3	39	50	5.2	38	6.7
21	7.0	3.0	1.6	1.5	2.0	2.2	6.7	69	42	5.5	47	4.0
22	5.0	2.5	1.4	1.5	3.5	2.0	6.7	56	60	2.6	75	2.1
23	5.0	2.0	1.5	1.5	5.0	1.6	13	103	117	1.6	50	1.7
24	5.0	1.8	1.8	1.5	4.5	1.3	17	73	60	1.2	90	1.5
25	5.0	1.5	3.0	1.4	3.5	1.2	23	57	44	1.2	44	1.4
26	7.0	1.3	2.5	1.4	3.0	1.2	38	48	37	1.2	28	1.4
27	15	1.3	2.0	1.4	2.5	1.2	36	42	33	1.2	15	1.4
28	30	1.2	1.7	1.4	2.3	1.2	21	62	27	1.2	6.7	1.4
29	40	1.1	1.5	1.4	------	1.3	16	42	36	1.2	4.7	1.4
30	25	1.1	1.5	1.5	------	1.4	23	35	38	1.2	2.7	1.4
31	15	------	1.5	1.5	------	2.0	------	39	------	1.2	6.7	------
TOTAL	312.0	106.5	90.3	187.6	87.0	54.0	780.0	1,636	1,582	435.4	622.7	842.1
MEAN	10.1	3.55	2.91	6.05	3.11	1.74	26.0	52.8	52.7	14.0	20.1	28.1
MAX	40	10	10	50	7.0	3.0	150	142	117	39	107	136
MIN	3.0	1.1	1.3	1.4	1.5	1.2	3.1	28	27	1.2	1.2	1.4
CFSM	3.19	1.12	.92	1.91	.98	.55	8.20	16.7	16.6	4.42	6.34	8.86
IN.	3.66	1.25	1.06	2.20	1.02	.63	9.15	19.20	18.56	5.11	7.31	9.88
AC-FT	619	211	179	372	173	107	1,550	3,250	3,140	864	1,240	1,670

WTR YR 1971 TOTAL 6,735.6 MEAN 18.5 MAX 150 MIN 1.1 CFSM 5.84 IN 79.04 AC-FT 13,360

NOTE.--No gage-height record Oct. 1, 1970 to Jan. 6, 1971; Jan. 23 to Feb. 28.

15093400 Sashin Creek near Big Port Walter

LOCATION.--Lat 56°22'32", long 134°39'40", in NW¼SW¼ sec.28, T.63 S., R.69 E., on Baranof Island, in Tongass National Forest, on the right bank, 0.7 mile upstream from mouth at Little Port Walter, 1 mile downstream from Sashin Lake, and 2.6 miles east of Big Port Walter.

DRAINAGE AREA.--3.72 sq mi (revised).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 78.1 cfs (285.11 inches per year, 56,580 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 625 cfs Sept. 7 (gage height, 4.13 ft), from rating curve extended above 230 cfs; minimum daily, 9.5 cfs Sept. 29.
Period of record: Maximum discharge, 808 cfs Dec. 7, 1969 (gage height, 4.43 ft), from rating curve extended above 230 cfs; minimum, 0.75 cfs Jan. 30, 1969.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	203	14	28	12	20	30	43	85	95	46	46
2	106	126	13	28	12	19	50	74	85	100	40	64
3	89	84	12	30	12	18	110	64	90	100	46	173
4	65	61	11	92	12	17	150	55	90	110	40	216
5	51	48	11	144	13	17	88	68	95	100	36	246
6	47	39	11	206	13	17	82	114	100	100	33	144
7	59	32	11	303	14	17	76	108	110	100	31	306
8	54	27	15	208	28	18	60	84	120	100	28	216
9	45	34	56	130	58	22	50	175	130	100	25	157
10	88	208	72	91	44	24	42	389	130	91	23	353
11	56	255	68	69	45	24	38	275	120	91	22	320
12	78	167	111	56	75	22	37	190	110	86	21	282
13	67	158	123	43	96	20	42	134	100	79	19	176
14	63	370	92	36	149	18	95	108	90	74	17	106
15	174	212	71	30	153	20	65	95	90	74	16	76
16	93	128	50	26	116	18	55	84	85	97	20	62
17	69	108	40	22	82	19	52	86	80	91	51	49
18	66	86	32	20	69	20	51	102	80	76	165	39
19	138	65	36	18	57	20	47	99	90	72	320	33
20	80	49	29	16	49	20	42	106	100	71	190	27
21	71	42	25	15	60	18	38	100	100	70	421	23
22	65	46	23	14	67	16	37	100	110	62	306	19
23	90	35	24	14	56	15	36	102	110	56	345	17
24	70	29	67	13	45	14	36	104	110	50	275	16
25	55	25	59	13	38	13	36	104	100	47	258	14
26	132	23	55	13	32	13	36	102	95	47	180	13
27	113	20	41	12	26	13	38	110	90	51	116	12
28	187	18	36	12	23	13	38	122	90	52	88	10
29	362	17	32	12	------	16	40	106	90	54	86	9.5
30	415	15	30	12	------	19	40	88	95	51	64	26
31	201	------	28	12	------	22	------	86	------	49	50	------
TOTAL	3,401	2,730	1,298	1,738	1,456	562	1,637	3,577	2,970	2,396	3,378	3,250.5
MEAN	110	91.0	41.9	56.1	52.0	18.1	54.6	115	99.0	77.3	109	108
MAX	415	370	123	303	153	24	150	389	130	110	421	353
MIN	45	15	11	12	12	13	30	43	80	47	16	9.5
CFSM	29.6	24.5	11.3	15.1	14.0	4.87	14.7	30.9	26.6	20.8	29.3	29.0
IN.	34.00	27.29	12.98	17.38	14.56	5.62	16.37	35.76	29.69	23.95	33.77	32.50
AC-FT	6,750	5,410	2,570	3,450	2,890	1,110	3,250	7,090	5,890	4,750	6,700	6,450

CAL YR 1970 TOTAL 28,637.0 MEAN 78.5 MAX 415 MIN 8.0 CFSM 21.1 IN 286.27 AC-FT 56,800
WTR YR 1971 TOTAL 28,393.5 MEAN 77.8 MAX 421 MIN 9.5 CFSM 20.9 IN 283.87 AC-FT 56,320

PEAK DISCHARGE (BASE, 600 CFS).--Sept. 7 (0430) 625 cfs (4.13 ft).
NOTE.--No gage-height record June 1 to July 9.

15093600 East Branch Lovers Cove Creek near Big Port Walter

LOCATION.--Lat 56°23'33", long 134°42'47", in NE¼SE¼ sec.24, T.63 S., R.68 E., on Baranof Island, in Tongass National Forest, on right bank 300 ft upstream from mouth at Lovers Cove, and 1.2 miles northeast of Big Port Walter.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1965 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is about 3 ft (from observations of tidal elevations at gage).

EXTREMES.--Current year: Maximum discharge, 52 cfs Nov. 10 (gage height, 1.87 ft), from rating curve extended above 25 cfs; minimum daily, 4.0 cfs Feb. 2-5, Mar. 19-30.
Period of record: Maximum discharge, 158 cfs Sept. 24, 1968 (gage height, 2.83 ft), from rating curve extended above 25 cfs; minimum daily, 0.40 cfs Apr. 2, 1967.

REMARKS.--Records poor. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	7.4	10	4.5	6.0	5.0	19	20	21	20	16
2	19	20	6.6	9.3	4.0	6.0	6.0	19	20	21	20	15
3	19	18	5.9	8.4	4.0	5.5	7.0	21	20	21	20	17
4	18	18	5.6	8.4	4.0	5.5	9.0	20	21	21	19	21
5	18	17	4.9	20	4.0	5.0	20	18	22	21	19	26
6	17	17	4.6	25	4.0	5.0	35	21	23	20	19	30
7	18	15	4.2	26	4.5	5.0	30	25	23	20	19	33
8	18	14	4.2	20	5.0	4.5	25	21	23	20	18	30
9	17	12	7.4	18	8.3	4.5	23	19	23	21	18	33
10	20	26	19	17	10	4.5	22	30	25	21	18	31
11	18	28	17	17	10	4.5	20	32	23	21	17	30
12	19	20	23	16	15	4.5	19	24	22	21	17	32
13	19	23	21	15	20	4.5	18	21	21	21	17	32
14	18	33	19	14	24	4.5	17	20	21	21	17	30
15	23	21	18	12	20	4.5	19	20	21	21	17	26
16	20	19	17	11	19	4.5	28	20	21	21	17	23
17	18	20	16	9.7	18	4.5	26	20	21	21	20	21
18	18	19	15	9.3	16	4.5	25	21	20	21	25	19
19	21	18	14	8.9	14	4.0	23	21	20	21	32	17
20	18	18	12	8.5	12	4.0	22	20	21	21	24	16
21	18	17	10	7.8	10	4.0	21	21	21	21	27	16
22	19	17	9.1	7.4	10	4.0	21	21	22	20	25	15
23	21	16	8.7	6.7	12	4.0	20	21	22	20	25	14
24	19	14	12	6.4	10	4.0	20	21	21	20	25	13
25	18	12	17	6.1	9.0	4.0	20	20	21	20	25	12
26	21	11	16	5.5	8.0	4.0	20	20	21	21	25	12
27	21	10	15	5.5	7.0	4.0	20	20	21	21	25	11
28	23	9.1	14	5.0	6.5	4.0	20	21	21	21	23	10
29	30	8.7	13	5.0	------	4.0	19	21	21	20	21	10
30	29	7.9	12	4.5	------	4.0	19	20	21	20	18	9.0
31	21	------	11	4.5	------	4.5	------	20	------	20	17	------
TOTAL	619	521.7	379.6	347.9	292.8	140.0	599.0	658	643	641	649	620.0
MEAN	20.0	17.4	12.2	11.2	10.5	4.52	20.0	21.2	21.4	20.7	20.9	20.7
MAX	30	33	23	26	24	6.0	35	32	25	21	32	33
MIN	17	7.9	4.2	4.5	4.0	4.0	5.0	18	20	20	17	9.0
AC-FT	1,230	1,030	753	690	581	278	1,190	1,310	1,280	1,270	1,290	1,230

CAL YR 1970 TOTAL 7,196.2 MEAN 19.7 MAX 72 MIN 2.0 AC-FT 14,270
WTR YR 1971 TOTAL 6,111.0 MEAN 16.7 MAX 35 MIN 4.0 AC-FT 12,120

15098000 Baranof River at Baranof

LOCATION.--Lat 57°05'15", long 134°50'30", on Baranof Island, in Tongass National Forest, on left bank at outlet of Baranof Lake, 1,500 ft upstream from mouth at Warm Springs Bay and town of Baranof.

DRAINAGE AREA.--32.0 sq mi.

PERIOD OF RECORD.--July 1915 to January 1928 (monthly discharge only), October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 140 ft (from topographic map). Prior to Oct. 1, 1957, at site 700 ft downstream at different datum.

AVERAGE DISCHARGE.--26 years, 425 cfs (180.36 inches per year, 307,900 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,810 cfs Aug. 21 (gage height, 9.18 ft); minimum, 13 cfs Mar. 27, 28.
Period of record: Maximum discharge, 4,170 cfs Sept. 24, 1922 (gage height, 5.8 ft, site and datum then in use), from rating curve extended above 1,800 cfs; minimum daily, 12 cfs Mar. 29 to Apr. 2, 1967.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,110	1,320	70	72	63	53	21	162	410	550	845	392
2	685	1,110	65	62	66	64	20	162	459	546	835	394
3	584	685	60	53	70	63	30	172	450	523	800	477
4	483	480	55	56	67	55	55	180	468	530	690	766
5	440	358	52	84	59	48	59	177	542	656	584	992
6	380	298	50	266	56	49	77	181	735	730	516	730
7	350	243	48	795	52	47	91	295	926	760	492	1,030
8	330	207	46	651	52	43	89	334	976	850	486	1,180
9	310	177	59	422	57	67	77	290	860	982	498	940
10	360	249	94	327	58	80	67	268	1,030	1,070	638	1,260
11	453	926	97	262	57	84	57	329	1,000	1,010	638	900
12	489	1,020	114	218	58	82	46	387	790	926	542	1,190
13	558	562	212	189	58	71	42	408	670	840	471	1,080
14	456	810	225	164	89	70	59	375	646	805	428	550
15	562	810	204	148	110	64	72	337	651	820	392	422
16	570	495	170	138	112	57	72	308	735	1,000	373	349
17	410	398	140	125	106	48	70	295	740	1,070	387	317
18	337	335	119	119	98	49	70	322	760	875	506	315
19	334	296	101	113	83	47	66	375	770	795	1,600	318
20	306	245	86	107	80	40	56	365	850	840	1,510	306
21	260	204	76	104	84	35	48	358	1,050	910	2,500	298
22	229	189	64	98	77	29	55	362	1,070	790	1,660	293
23	354	162	58	93	75	24	67	356	1,170	646	1,130	276
24	430	137	62	91	67	22	82	356	1,180	550	948	262
25	340	121	94	87	62	19	96	358	932	538	810	232
26	320	108	107	86	62	17	110	358	938	680	680	204
27	344	97	101	87	61	14	162	344	900	900	492	183
28	342	89	94	82	56	15	197	353	820	1,010	396	154
29	495	80	84	79	------	16	191	405	656	1,010	362	135
30	1,110	79	80	72	------	16	175	403	566	943	367	125
31	1,070	------	76	66	------	16	------	387	------	895	373	------
TOTAL	14,801	12,290	2,963	5,316	1,995	1,404	2,379	9,762	23,750	25,050	22,949	16,070
MEAN	477	410	95.6	171	71.3	45.3	79.3	315	792	808	740	536
MAX	1,110	1,320	225	795	112	84	197	408	1,180	1,070	2,500	1,260
MIN	229	79	46	53	52	14	20	162	410	523	362	125
CFSM	14.9	12.8	2.99	5.34	2.23	1.42	2.48	9.84	24.8	25.3	23.1	16.8
IN.	17.21	14.29	3.44	6.18	2.32	1.63	2.77	11.35	27.61	29.12	26.68	18.68
AC-FT	29,360	24,380	5,880	10,540	3,960	2,780	4,720	19,360	47,110	49,690	45,520	31,870

CAL YR 1970 TOTAL 141,550 MEAN 388 MAX 2,510 MIN 30 CFSM 12.1 IN 164.55 AC-FT 280,800
WTR YR 1971 TOTAL 138,729 MEAN 380 MAX 2,500 MIN 14 CFSM 11.9 IN 161.27 AC-FT 275,200

PEAK DISCHARGE (BASE, 2,000 CFS).--Aug. 21 (1500) 2,810 cfs (9.18 ft).

15106920 Kadashan River above Hook Creek near Tenakee

LOCATION.--Lat 57°39'59", long 135°11'26", in SE¼NW¼ sec.34, T.48 S., R.63 E., on Chichagof Island, in Tongass National Forest on left bank 0.6 mile above Hook Creek, 3.5 miles upstream from mouth at Kadashan Bay, and 9 miles south of Tenakee.

DRAINAGE AREA.--10.2 sq mi.

PERIOD OF RECORD.--January 1968 to current year.

GAGE.--Water stage and temperature recorder. Altitude of gage is 100 ft (from topographic map). Prior to Oct. 24, 1969, at site 15 ft downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 1,150 cfs Dec. 13 (gage height, 5.17 ft); minimum daily, 9.0 cfs Feb. 1-6.
Period of record: Maximum discharge, 1,350 cfs Sept. 28, 1970 (gage height, 5.58 ft); minimum daily, 4.0 cfs Jan. 18-21, 1970.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	134	12	30	9.0	30	15	72	164	66	23	55
2	104	86	11	40	9.0	20	15	82	138	70	37	40
3	86	58	11	50	9.0	20	20	145	120	57	35	151
4	58	47	11	60	9.0	15	25	99	137	60	27	80
5	49	40	12	100	9.0	20	25	73	185	55	24	111
6	42	35	12	200	9.0	25	40	157	205	52	22	114
7	56	32	14	250	11	25	40	338	201	50	30	184
8	46	30	18	100	15	30	35	118	201	47	25	290
9	40	27	35	60	25	45	30	76	192	48	22	151
10	232	43	85	50	25	30	25	160	176	47	21	91
11	147	117	246	40	17	25	25	313	145	42	19	93
12	127	75	423	32	26	25	20	205	110	38	18	117
13	78	46	755	30	40	20	35	181	107	34	17	88
14	70	133	265	28	90	20	50	132	118	33	17	55
15	349	128	150	25	40	15	45	106	133	44	17	45
16	128	88	100	23	35	15	45	95	118	158	18	41
17	71	83	70	21	25	15	40	101	116	55	17	41
18	61	46	70	20	20	20	40	139	113	39	19	86
19	108	36	50	18	15	15	35	146	133	35	112	79
20	65	29	40	17	15	16	35	138	135	35	48	46
21	50	27	35	16	20	15	30	173	117	33	64	41
22	45	28	30	15	25	15	30	137	179	30	90	37
23	116	26	40	14	50	15	50	130	204	29	84	36
24	85	23	45	13	20	15	75	145	109	28	77	33
25	57	18	65	12	20	15	75	139	122	27	65	32
26	111	18	60	12	20	15	70	124	94	27	70	31
27	116	16	50	11	25	15	75	129	91	27	41	30
28	124	16	45	11	45	15	80	218	73	26	34	29
29	284	14	40	10	------	15	64	163	68	25	32	28
30	248	13	35	10	------	15	65	121	62	25	31	37
31	151	------	30	10	------	15	------	130	------	24	28	------
TOTAL	3,460	1,512	2,865	1,328	678.0	611	1,254	4,485	4,066	1,366	1,184	2,292
MEAN	112	50.4	92.4	42.8	24.2	19.7	41.8	145	136	44.1	38.2	76.4
MAX	349	134	755	250	90	45	80	338	205	158	112	290
MIN	40	13	11	10	9.0	15	15	72	62	24	17	28
CFSM	10.8	4.85	8.88	4.12	2.33	1.89	4.02	13.9	13.1	4.24	3.67	7.35
IN.	12.38	5.41	10.25	4.75	2.43	2.19	4.49	16.04	14.54	4.89	4.24	8.20
AC-FT	6,860	3,000	5,680	2,630	1,340	1,210	2,490	8,900	8,060	2,710	2,350	4,550

CAL YR 1970 TOTAL 25,896.4 MEAN 70.9 MAX 755 MIN 4.0 CFSM 6.82 IN 92.63 AC-FT 51,370
WTR YR 1971 TOTAL 25,101.0 MEAN 68.8 MAX 755 MIN 9.0 CFSM 6.62 IN 89.78 AC-FT 49,790

15106940 Hook Creek above Tributary near Tenakee

LOCATION.--Lat 57°40'49", long 135°07'58", in SW¼NE¼ sec.25, T.48 S., R.63 E., on Chichagof Island, in Tongass National Forest, on right bank, 0.5 mile upstream from unnamed tributary, 2.5 miles upstream from confluence with Kadashan River and 9 miles south of Tenakee.

DRAINAGE AREA.--4.48 sq mi.

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (from topographic map). Prior to May 15, 1969, at site 130 ft downstream at different datum.

EXTREMES.--Current year: Maximum discharge, 257 cfs Oct. 15 (gage height, 2.46 ft); maximum gage height, 3.65 ft Feb. 14; (backwater from ice); minimum daily discharge, 1.5 cfs Jan. 29 to Feb. 5.
Period of record: Maximum discharge, 662 cfs Sept. 27, 1968 (gage height, 3.83 ft), from rating curve extended above 30 cfs on basis of stage-conveyance computation; minimum daily, 1.5 cfs Jan. 29 to Feb. 5, 1971.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	55	3.0	3.0	1.5	15	5.0	18	71	32	5.0	20
2	36	36	3.0	4.0	1.5	10	5.4	24	58	35	14	17
3	30	26	2.5	5.0	1.5	9.0	10	42	53	32	14	44
4	25	21	2.5	10	1.5	8.0	22	29	64	31	8.6	31
5	22	19	2.5	20	1.5	10	13	21	89	31	7.0	41
6	19	16	2.5	100	2.0	12	25	49	112	31	6.4	37
7	20	17	2.5	50	3.0	15	22	97	104	27	11	80
8	17	15	2.5	35	4.0	15	13	41	94	25	7.3	98
9	16	19	3.5	15	5.0	30	11	28	90	26	6.3	51
10	54	34	35	18	3.0	20	9.7	59	84	25	5.9	45
11	39	65	10	16	2.5	15	9.3	102	82	21	5.6	43
12	29	30	20	15	5.0	12	8.9	74	64	19	5.5	57
13	24	30	40	14	8.0	10	14	61	57	17	6.2	37
14	21	50	15	14	25	9.0	30	44	58	16	6.5	24
15	129	50	6.0	3.5	20	8.0	18	35	68	22	6.7	18
16	47	35	4.0	3.5	15	8.0	16	30	63	43	6.7	15
17	29	30	3.0	3.0	10	7.5	16	30	61	20	6.6	16
18	24	20	3.0	3.0	8.0	7.5	16	57	72	16	10	29
19	32	18	3.0	2.5	7.0	8.0	14	54	72	14	66	25
20	25	12	3.0	2.5	5.0	8.0	12	50	78	14	23	17
21	21	9.0	2.5	2.5	8.0	8.0	11	64	68	12	44	14
22	18	8.0	2.5	2.0	12	7.5	11	48	68	11	37	13
23	51	7.0	2.5	2.0	10	7.0	18	49	99	9.4	38	11
24	35	6.5	3.0	2.0	8.0	7.0	23	55	64	8.4	33	9.9
25	24	5.5	6.0	2.0	7.0	7.0	27	54	52	7.5	27	8.8
26	39	5.0	5.0	2.0	8.0	7.0	37	49	50	7.4	25	7.8
27	42	4.5	4.0	2.0	15	6.5	39	50	43	7.0	18	7.0
28	43	4.0	3.0	2.0	25	6.0	25	96	37	6.8	14	6.5
29	109	3.5	2.5	1.5	------	5.5	19	61	36	6.3	12	6.1
30	109	3.5	2.5	1.5	------	5.5	17	45	35	5.5	11	9.0
31	69	------	2.5	1.5	------	5.0	------	55	------	5.3	10	------
TOTAL	1,251	654.5	202.5	358.0	223.0	309.0	517.3	1,571	2,046	583.6	497.3	838.1
MEAN	40.4	21.8	6.53	11.5	7.96	9.97	17.2	50.7	68.2	18.8	16.0	27.9
MAX	129	65	40	100	25	30	39	102	112	43	66	98
MIN	16	3.5	2.5	1.5	1.5	5.0	5.0	18	35	5.3	5.0	6.1
CFSM	9.02	4.87	1.46	2.57	1.78	2.23	3.84	11.3	15.2	4.20	3.57	6.23
IN.	10.39	5.43	1.68	2.97	1.85	2.57	4.30	13.04	16.99	4.85	4.13	6.96
AC-FT	2,480	1,300	402	710	442	613	1,030	3,120	4,060	1,160	986	1,660

CAL YR 1970 TOTAL 9,653.9 MEAN 26.4 MAX 171 MIN 2.5 CFSM 5.89 IN 80.16 AC-FT 19,150
WTR YR 1971 TOTAL 9,051.3 MEAN 24.8 MAX 129 MIN 1.5 CFSM 5.54 IN 75.16 AC-FT 17,950

15106960 Hook Creek near Tenakee

LOCATION.--Lat 57°40'32", long 135°10'05", in SW 1/4 sec.26, T.48 S., R.63 E., on Chichagof Island in Tongass National Forest, on right bank, 1 mile upstream from confluence with Kadashan River, and 9 miles south of Tenakee.

DRAINAGE AREA.--8.00 sq mi.

PERIOD OF RECORD.--December 1966 to current year. Published as "above Kadashan River" prior to September 1969.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 612 cfs Oct. 15 (gage height, 3.32 ft); maximum gage height, 3.93 ft Jan. 14 (backwater from ice); minimum daily, 6.5 cfs Feb. 3-5.

Period of record: Maximum discharge (revised), 1,770 cfs Sept. 27, 1968 (gage height, 4.7 ft, from floodmarks) from rating curve extended above 240 cfs on basis of slope-area measurement at a gage height of 3.68 ft; maximum gage height, 4.68 ft Apr. 24, 1969 (backwater from ice); minimum daily discharge, 4.0 cfs Mar. 28 to Apr. 1, 1967, Jan. 25-31, 1969.

REVISIONS.--The maximum discharge for water year 1968 has been revised to 1,770 cfs Sept. 27, 1968 (gage height, 4.7 ft, from floodmarks), superseding figure published in WRD Alaska 1969 and 1970.

REMARKS.--Records good except those for winter periods, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	117	12	10	7.0	20	9.7	32	127	44	12	27
2	66	73	11	11	7.0	15	10	38	99	44	23	23
3	59	52	11	12	6.5	15	22	75	84	42	23	69
4	47	42	10	25	6.5	10	26	50	104	42	17	44
5	40	37	10	50	6.5	15	18	37	157	40	14	59
6	35	33	10	200	7.0	20	33	100	190	38	14	58
7	36	31	11	100	7.5	20	30	196	184	36	19	146
8	32	28	13	55	9.0	20	20	70	169	36	16	192
9	28	27	18	50	23	40	17	43	152	36	15	97
10	87	51	55	35	16	25	16	108	143	35	13	75
11	65	130	22	30	12	20	15	208	132	30	13	72
12	46	64	86	25	20	15	14	138	95	27	13	100
13	38	43	171	21	33	15	22	111	80	24	13	61
14	34	98	29	19	40	15	44	73	79	23	13	39
15	279	97	20	17	35	10	27	56	88	28	13	31
16	109	63	16	16	30	10	24	50	95	60	13	27
17	60	63	14	15	15	10	24	49	88	31	12	27
18	48	41	13	13	10	10	24	93	91	25	14	46
19	63	32	12	12	10	10	21	93	88	22	99	43
20	50	27	12	11	10	10	18	84	99	22	29	30
21	42	25	11	11	10	10	17	116	84	20	57	26
22	37	24	11	10	10	10	17	91	84	19	50	24
23	95	22	11	9.5	20	10	24	80	160	17	52	22
24	64	20	11	9.5	15	10	30	93	109	16	44	20
25	44	18	16	9.0	15	10	36	91	80	15	35	19
26	75	17	13	8.5	15	10	50	80	77	15	33	18
27	82	16	12	8.5	20	10	52	79	60	15	25	18
28	87	14	11	8.0	40	9.7	40	170	50	14	21	16
29	267	13	11	7.5	------	9.7	31	114	48	13	19	15
30	256	13	10	7.5	------	9.4	29	80	46	13	18	19
31	146	------	10	7.0	------	9.4	------	84	------	13	17	------
TOTAL	2,516	1,331	683	823.0	456.0	433.2	760.7	2,782	3,142	855	769	1,463
MEAN	81.2	44.4	22.0	26.5	16.3	14.0	25.4	89.7	105	27.6	24.8	48.8
MAX	279	130	171	200	40	40	52	208	190	60	99	192
MIN	28	13	10	7.0	6.5	9.4	9.7	32	46	13	12	15
CFSM	10.2	5.55	2.75	3.31	2.04	1.75	3.18	11.2	13.1	3.45	3.10	6.10
IN.	11.70	6.19	3.18	3.83	2.12	2.01	3.54	12.94	14.61	3.98	3.58	6.80
AC-FT	4,990	2,640	1,350	1,630	904	859	1,510	5,520	6,230	1,700	1,530	2,900

CAL YR 1970 TOTAL 16,630.7 MEAN 45.6 MAX 378 MIN 7.0 CFSM 5.70 IN 77.33 AC-FT 32,990
WTR YR 1971 TOTAL 16,013.9 MEAN 43.9 MAX 279 MIN 6.5 CFSM 5.49 IN 74.46 AC-FT 31,760

15106980 Tonalite Creek near Tenakee

LOCATION.--Lat 57°40'42", long 135°13'17", on Chichagof Island in Tongass National Forest, on right bank 2 miles upstream from mouth at Kadaahan River, and 9 miles aouth of Tenakee.

DRAINAGE AREA.--14.5 aq mi.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage ia 50 ft (from topographic map). Prior to Mar. 23, 1970, at site 40 ft upstream on left bank at datum 0.30 ft higher.

EXTREMES.--Current year: Maximum discharge recorded, 884 cfa Oct. 15 (gage height, 4.86 ft); maximum gage height, 6.64 ft Jan. 5 (backwater from ice); minimum daily, 10 cfs Feb. 3-6.
Period of record: Maximum discharge, 2,650 cfs Nov. 28, 1968 (gage height, 5.55 ft), from rating curve extended above 150 cfs by slope-area method; minimum daily, 6.2 cfa Aug. 14, 15, 1968.

REMARKS.--Records good except those for winter periods and those for the period of no gage-height record, which are poor. Records of chemical analyses, water temperaturea, and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	151	17	65	11	35	20	80	200	70	15	65
2	125	98	15	35	11	25	20	80	170	75	40	50
3	108	73	15	50	10	25	25	130	160	70	38	190
4	78	62	15	85	10	25	30	110	180	55	30	110
5	68	56	15	200	10	25	30	80	250	60	20	110
6	65	51	16	600	10	30	45	150	320	60	17	170
7	65	48	20	200	15	30	45	440	300	55	30	320
8	59	46	22	110	20	35	40	150	280	55	22	550
9	54	43	17	70	30	55	35	95	270	55	19	300
10	205	54	180	55	45	50	30	150	240	50	17	190
11	193	100	150	45	45	35	30	380	240	45	16	170
12	176	83	190	40	45	30	25	260	170	40	15	220
13	112	62	220	30	35	25	40	200	140	36	14	180
14	85	94	220	30	50	25	55	150	140	30	15	120
15	435	163	120	30	45	20	50	120	150	46	15	100
16	170	106	110	25	40	20	50	110	160	130	15	90
17	90	119	90	20	30	20	45	120	150	70	15	100
18	73	67	80	20	25	25	45	150	140	40	16	140
19	102	56	70	18	20	20	40	170	140	36	110	150
20	78	46	60	18	20	20	40	160	160	34	70	100
21	64	40	60	17	25	20	35	180	150	32	83	90
22	57	40	50	16	30	20	35	160	140	28	95	80
23	99	36	60	15	60	20	65	150	280	24	90	75
24	98	34	80	14	35	20	85	160	220	22	90	70
25	71	30	120	14	25	20	85	160	150	20	75	65
26	117	28	100	14	30	20	120	150	130	20	95	60
27	117	24	80	13	40	20	121	150	120	19	55	55
28	112	20	60	13	55	20	104	230	95	19	40	50
29	355	20	50	12	------	20	75	190	85	18	38	50
30	300	20	20	12	------	20	70	150	75	17	34	60
31	163	------	15	12	------	20	------	160	------	16	30	------
TOTAL	4,099	1,870	2,337	1,898	827	795	1,535	5,125	5,405	1,347	1,274	4,080
MEAN	132	62.3	75.4	61.2	29.5	25.6	51.2	165	180	43.5	41.1	136
MAX	435	163	220	600	60	55	121	440	320	130	110	550
MIN	54	20	15	12	10	20	20	80	75	16	14	50
CFSM	9.36	4.42	5.35	4.34	2.09	1.82	3.63	11.7	12.8	3.09	2.91	9.65
IN.	10.81	4.93	6.17	5.01	2.18	2.10	4.05	13.52	14.26	3.55	3.36	10.76
AC-FT	8,130	3,710	4,640	3,760	1,640	1,580	3,040	10,170	10,720	2,670	2,530	8,090

CAL YR 1970	TOTAL 2,699,406.0	MEAN 7,396	MAX 101,000	MIN 9.0	CFSM 24.5	IN 121.84	AC-FT 5,354,000
WTR YR 1971	TOTAL 30,592.0	MEAN 83	MAX 600	MIN 10	CFSM 5.94	IN 80.71	AC-FT 60,680

NOTE.--No gage-height record Mar. 1 to Apr. 26 and Aug. 19 to Sept. 30.

15107000 Kadashan River near Tenakee

LOCATION.--Lat 57°41'43", long 135°12'59", in SE¼NW¼ sec.21, T.48 S., R.63 E., on Chichagof Island, in Tongass National Forest, on right bank, 700 ft downstream from mouth of Tonalite Creek, 0.5 mile upstream from mouth at Kadashan Bay in Tenakee Inlet, and 7 miles south of Tenakee.

DRAINAGE AREA.--37.7 sq mi.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 3 ft (from topographic map).

AVERAGE DISCHARGE.--7 yeara, 228 cfa (82.13 inches per year, 165,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 3,350 cfs Oct. 15 (gage height, 8.23 ft), from rating curve extended above 1,000 cfs; minimum daily, 27 cfs Feb. 3-4.
Period of record: Maximum discharge, 5,810 cfs Sept. 28, 1968 (gage height, 10.22 ft), from rating curve extended above 1,000 cfs; minimum daily, 14 cfs Jan. 29 to Feb. 1, 1966.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	603	475	43	110	29	90	45	207	552	201	38	167
2	332	304	38	100	28	70	50	230	464	210	91	130
3	310	212	37	130	27	65	60	425	402	180	96	469
4	217	170	37	200	27	60	75	298	452	150	62	276
5	176	146	38	400	28	65	80	220	670	149	49	282
6	146	124	40	1,200	30	80	120	429	818	148	43	423
7	168	114	50	600	35	80	115	1,330	807	146	79	780
8	138	103	56	300	45	90	100	370	745	134	59	1,410
9	120	96	93	200	80	150	90	246	705	145	49	763
10	544	143	453	170	100	115	80	505	630	138	43	472
11	466	348	372	130	100	90	75	1,260	572	120	40	433
12	365	268	483	100	100	80	65	736	436	106	38	532
13	260	173	1,210	85	100	70	100	624	370	92	37	446
14	204	282	553	80	200	60	150	422	370	84	38	304
15	1,390	470	341	70	130	55	140	332	412	112	38	252
16	492	285	274	65	110	55	120	300	426	386	41	222
17	260	323	220	60	70	50	115	310	380	178	40	225
18	212	181	180	55	60	55	110	453	380	116	42	358
19	323	136	150	50	45	55	100	492	370	94	440	374
20	236	107	130	50	50	55	100	448	433	92	178	252
21	183	100	120	50	55	55	95	556	405	84	208	222
22	156	90	100	45	65	50	95	435	370	71	234	201
23	307	80	130	40	150	50	163	420	766	62	231	183
24	287	70	180	40	80	50	209	480	552	56	219	168
25	207	65	220	35	65	50	215	460	370	53	189	160
26	299	60	180	35	70	50	296	405	346	52	233	145
27	365	55	150	35	90	50	319	405	294	50	135	138
28	399	50	130	35	150	45	249	729	252	49	102	130
29	1,120	48	110	30	------	45	196	534	228	46	94	126
30	944	44	100	30	------	45	194	394	204	42	84	155
31	506	------	90	30	------	45	------	417	------	40	75	------
TOTAL	11,735	5,122	6,308	4,560	2,119	2,025	3,921	14,872	14,181	3,586	3,345	10,198
MEAN	379	171	203	147	75.7	65.3	131	480	473	116	108	340
MAX	1,390	475	1,210	1,200	200	150	319	1,330	818	386	440	1,410
MIN	120	44	37	30	27	45	45	207	204	40	37	126
CFSM	10.1	4.54	5.38	3.90	2.01	1.73	3.47	12.7	12.5	3.08	2.86	9.02
IN.	11.58	5.05	6.22	4.50	2.09	2.00	3.87	14.67	13.99	3.54	3.30	10.06
AC-FT	23,280	10,160	12,510	9,040	4,200	4,020	7,780	29,500	28,130	7,110	6,630	20,230

CAL YR 1970 TOTAL 86,918 MEAN 238 MAX 2,920 MIN 15 CFSM 6.31 IN 85.77 AC-FT 172,400
WTR YR 1971 TOTAL 81,972 MEAN 225 MAX 1,410 MIN 27 CFSM 5.97 IN 80.88 AC-FT 162,600

PEAK DISCHARGE (BASE, 2,600 CFS).--Oct. 15 (1200) 3,350 cfs (8.23 ft).

NOTE.--No gage-height record Feb. 27 to Apr. 20.

15108000 Pavlof River near Tenakee

LOCATION.--Lat 57°50'30", long 135°02'10", on Chichagof Island, in Tongass National Forest, on left bank 250 ft upstream from falls at outlet of Pavlof Lake, 0.1 mile upstream from mouth at Pavlof Harbor, and 8 miles northeast of Tenakee.

DRAINAGE AREA.--24.3 sq mi.

PERIOD OF RECORD.--June 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about 20 ft (from topographic map).

AVERAGE DISCHARGE.--14 years, 162 cfs (90.53 inches per year, 117,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,220 cfs Oct. 15 (gage height, 6.44 ft); minimum daily, 12 cfs Feb. 2-7.
Period of record: Maximum discharge, 2,970 cfs Jan. 4, 1963 (gage height, 8.37 ft), from rating curve extended above 1,200 cfs; minimum daily, 10 cfs Jan. 29-31, 1967 Dec. 16-20, 1969.

REMARKS.--Records good. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	601	329	17	24	13	28	18	125	272	112	41	127
2	307	222	16	22	12	30	24	144	272	117	68	106
3	315	141	15	23	12	32	75	322	212	120	91	340
4	170	108	14	24	12	28	158	226	215	104	59	281
5	127	87	14	368	12	24	79	141	309	107	47	211
6	98	73	14	1,010	12	22	114	256	430	104	42	258
7	109	66	14	781	12	27	141	802	435	87	78	321
8	95	60	15	264	13	28	79	252	405	103	66	555
9	78	53	25	112	20	41	58	147	381	113	51	394
10	338	75	125	73	104	102	54	354	350	118	46	230
11	399	259	82	60	58	73	51	692	292	107	43	180
12	204	180	117	50	59	71	47	376	237	91	40	217
13	153	105	210	46	152	51	92	368	188	78	35	156
14	144	153	136	40	276	40	204	249	173	70	33	113
15	794	268	75	32	208	34	130	195	182	86	32	93
16	394	165	54	30	164	29	97	170	191	236	37	79
17	179	225	43	28	122	27	109	164	185	161	37	75
18	123	114	33	26	81	34	122	215	191	104	35	102
19	251	85	26	24	65	54	101	264	205	87	171	126
20	165	62	22	24	86	40	71	260	245	86	134	89
21	124	55	20	22	161	31	58	272	230	89	106	76
22	96	55	18	20	117	28	55	256	198	73	136	67
23	123	40	22	20	86	24	86	241	249	60	187	60
24	150	36	88	19	63	22	126	284	280	53	201	51
25	110	30	149	18	49	20	142	292	195	49	156	46
26	189	30	125	17	40	17	175	241	208	51	189	41
27	288	26	67	16	30	16	197	222	170	55	119	37
28	219	26	40	16	28	16	152	288	152	53	89	33
29	534	20	32	15	------	14	117	332	136	51	75	31
30	471	19	26	14	------	13	127	230	122	47	68	37
31	276	------	24	13	------	14	------	202	------	43	58	------
TOTAL	7,624	3,167	1,678	3,251	2,067	1,030	3,059	8,582	7,310	2,815	2,570	4,532
MEAN	246	106	54.1	105	73.8	33.2	102	277	244	90.8	82.9	151
MAX	794	329	210	1,010	276	102	204	802	435	236	201	555
MIN	78	19	14	13	12	13	18	125	122	43	32	31
CFSM	10.1	4.36	2.23	4.32	3.04	1.37	4.20	11.4	10.0	3.74	3.41	6.21
IN.	11.67	4.85	2.57	4.98	3.16	1.58	4.68	13.14	11.19	4.31	3.93	6.94
AC-FT	15,120	6,280	3,330	6,450	4,100	2,040	6,070	17,020	14,500	5,580	5,100	8,990

CAL YR 1970 TOTAL 50,737 MEAN 139 MAX 2,130 MIN 14 CFSM 5.72 IN 77.67 AC-FT 100,600
WTR YR 1971 TOTAL 47,685 MEAN 131 MAX 1,010 MIN 12 CFSM 5.39 IN 73.00 AC-FT 94,580

PEAK DISCHARGE (BASE, 1,200 CFS).--Oct. 15 (1300) 1,220 cfs (6.44 ft).

15108600 Hilda Creek near Douglas

LOCATION.--Lat 58°13'38", long 134°29'50", on Douglas Island, on right bank 500 ft upstream from unnamed tributary, 0.5 mile upstream from mouth at Stephens Passage, and 5 miles southwest of Douglas.

DRAINAGE AREA.--2.62 sq mi.

PERIOD OF RECORD.--December 1966 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 193 cfs July 16 (gage height, 3.75 ft), from rating curve extended above 100 cfs; maximum gage height, 3.86 ft (backwater from ice); minimum daily, 2.0 cfs Dec. 23 to Jan. 3, Jan. 28 to Feb. 7, Mar. 23 to 31.
Period of record: Maximum discharge, 400 cfs Nov. 21, 1967 (gage height, 4.60 ft), from rating curve extended above 100 cfs; minimum daily, 0.50 cfs Feb. 9 to Mar. 18, 1969.

REMARKS.--Records fair except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	18	2.5	2.0	2.0	2.8	2.5	12	57	20	3.6	34
2	37	11	2.5	2.0	2.0	2.8	2.8	14	45	31	62	28
3	25	8.1	2.5	2.0	2.0	2.7	6.2	29	38	26	57	33
4	14	6.5	2.5	3.0	2.0	2.6	8.2	23	50	19	18	19
5	10	5.5	2.5	7.0	2.0	2.5	5.7	15	71	17	8.7	18
6	8.3	4.9	2.5	15	2.0	2.4	15	29	96	16	11	29
7	8.4	4.7	2.5	13	2.0	2.4	12	73	80	15	77	32
8	8.9	4.4	2.3	11	2.2	2.4	7.6	28	73	14	22	21
9	9.6	4.0	2.3	10	2.5	2.3	6.0	15	72	14	12	19
10	14	4.0	2.3	9.0	3.0	2.3	5.6	29	58	13	9.8	13
11	13	7.3	2.3	7.0	5.0	2.3	5.4	57	52	11	7.8	11
12	48	6.7	2.3	5.0	7.0	2.2	5.4	59	43	9.5	6.3	12
13	40	5.7	2.5	4.5	10	2.2	7.4	55	32	8.2	6.0	19
14	17	8.3	2.5	4.0	13	2.2	11	33	30	8.6	16	17
15	57	11	3.0	3.5	10	2.2	7.6	24	35	46	31	11
16	25	11	2.6	3.5	8.0	2.1	6.3	21	38	108	28	8.1
17	12	9.4	2.5	3.0	6.0	2.1	6.5	24	34	41	13	14
18	9.0	7.3	2.5	3.0	5.0	2.1	8.2	35	33	19	8.8	28
19	13	5.7	2.5	3.0	4.5	2.1	7.2	45	38	12	32	21
20	9.8	4.4	2.5	3.0	5.0	2.1	6.1	39	40	19	26	12
21	7.5	4.0	2.5	2.5	7.0	2.1	5.5	57	38	23	15	13
22	6.3	4.0	2.5	2.5	6.0	2.1	5.4	39	29	12	33	11
23	6.3	3.5	2.0	2.5	4.5	2.0	8.0	26	43	8.8	26	8.4
24	7.5	3.5	2.0	2.5	4.0	2.0	13	35	47	7.2	21	6.8
25	6.5	3.5	2.0	2.5	3.5	2.0	16	40	34	6.2	19	5.6
26	7.7	3.5	2.0	2.5	3.2	2.0	26	41	29	6.0	45	4.7
27	16	3.0	2.0	2.5	3.1	2.0	24	48	23	5.5	19	4.2
28	12	3.0	2.0	2.0	3.0	2.0	16	58	18	5.1	11	3.8
29	62	3.0	2.0	2.0	------	2.0	12	68	35	4.7	7.6	3.4
30	56	3.0	2.0	2.0	------	2.0	11	38	23	4.3	5.9	7.0
31	22	------	2.0	2.0	------	2.0	------	41	------	3.8	5.9	------
TOTAL	610.8	181.9	72.6	139.0	129.5	69.0	279.6	1,150	1,334	553.9	664.4	467.0
MEAN	19.7	6.06	2.34	4.48	4.63	2.23	9.32	37.1	44.5	17.9	21.4	15.6
MAX	62	18	3.0	15	13	2.8	26	73	96	108	77	34
MIN	6.3	3.0	2.0	2.0	2.0	2.0	2.5	12	18	3.8	3.6	3.4
CFSM	7.52	2.31	.89	1.71	1.77	.85	3.56	14.2	17.0	6.83	8.17	5.95
IN.	8.67	2.58	1.03	1.97	1.84	.98	3.97	16.33	18.94	7.86	9.43	6.63
AC-FT	1,210	361	144	276	257	137	555	2,280	2,650	1,100	1,320	926

CAL YR 1970 TOTAL 5,060.9 MEAN 13.9 MAX 141 MIN 1.0 CFSM 5.31 IN 71.86 AC-FT 10,040
WTR YR 1971 TOTAL 5,651.7 MEAN 15.5 MAX 108 MIN 2.0 CFSM 5.92 IN 80.25 AC-FT 11,210

15108800 Lawson Creek at Douglas

LOCATION.--Lat 58°17'05", long 134°24'40", in center of sec. 26, T.41 S., R.67 E., on Douglas Island, on left bank 300 ft upstream from highway bridge at Douglas City limits, and 600 ft upstream from mouth at Gastineau Channel.

DRAINAGE AREA.--2.98 sq mi.

PERIOD OF RECORD.--October 1966 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (from topographic map).

EXTREMES.--Current year: Maximum daily discharge, 200 cfs June 6; minimum daily, 0.1 cfs Dec. 19 to Jan. 3.
Period of record: Maximum discharge, 565 cfs Sept. 5, 1968 (gage height, 4.30 ft), from rating curve extended above 100 cfs; minimum daily, 0.1 cfs Dec. 19, 1970 to Jan. 3, 1971.

REMARKS.--Recorda poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	15	.30	.10	2.0	1.4	.62	49	130	110	4.8	14
2	45	10	.30	.10	2.0	.90	.96	59	100	154	17	24
3	30	4.0	.30	.10	2.0	.60	16	32	80	182	21	27
4	25	2.5	.30	.30	2.0	.50	34	21	110	154	5.5	29
5	20	1.4	.30	.50	2.0	.50	5.2	11	150	120	2.1	31
6	15	.77	.20	10	2.0	.50	38	17	200	90	1.9	29
7	10	.51	.20	59	2.0	.50	21	59	170	80	26	31
8	15	.54	.20	12	2.0	.50	6.3	39	160	70	10	34
9	15	.50	.20	10	2.5	2.0	2.6	24	150	60	4.8	32
10	12	10	.20	8.5	3.0	8.6	1.6	60	130	50	3.2	25
11	15	13	.20	7.0	3.5	2.2	1.2	129	100	45	2.2	16
12	18	8.9	.20	6.0	6.0	1.9	1.2	126	120	50	1.5	22
13	30	4.1	.20	5.5	9.0	.60	5.8	129	130	60	1.7	22
14	22	33	.20	5.0	13	.50	24	100	147	80	10	18
15	18	41	.20	4.5	9.0	.40	8.4	60	130	150	16	15
16	15	12	.20	4.5	7.0	.40	4.8	50	100	80	17	14
17	13	9.1	.20	4.0	5.0	.40	4.5	80	130	50	7.4	20
18	11	3.0	.20	4.0	3.0	.60	8.4	100	170	36	4.2	35
19	9.5	3.9	.10	4.0	2.0	1.1	5.8	129	141	22	22	25
20	8.0	24	.10	3.5	4.0	1.4	3.2	90	100	35	21	20
21	7.0	56	.10	3.5	6.0	.70	1.9	129	126	39	11	16
22	6.0	23	.10	3.0	9.0	1.4	1.9	100	180	23	23	14
23	5.5	5.0	.10	3.0	5.5	.90	4.8	60	141	17	23	10
24	7.0	.65	.10	3.0	3.0	.70	13	70	110	14	26	8.0
25	8.0	.50	.10	3.0	1.1	.60	52	80	141	12	17	7.0
26	15	.50	.10	2.5	.80	1.7	93	100	160	12	32	6.0
27	30	.40	.10	2.5	2.2	.60	84	110	132	11	18	5.0
28	60	.40	.10	2.5	2.5	.60	59	125	115	9.4	9.4	5.0
29	100	.40	.10	2.5	------	.50	49	150	100	8.4	5.8	8.0
30	60	.30	.10	2.0	------	.50	45	90	80	5.8	4.8	10
31	25	------	.10	2.0	------	.50	------	100	------	5.2	3.6	------
TOTAL	746.0	284.37	5.40	178.10	113.10	34.20	597.18	2,478	3,933	1,834.8	372.9	572.0
MEAN	24.1	9.48	.17	5.75	4.04	1.10	19.9	79.9	131	59.2	12.0	19.1
MAX	100	56	.30	59	13	8.6	93	150	200	182	32	35
MIN	5.5	.30	.10	.10	.80	.40	.62	11	80	5.2	1.5	5.0
CFSM	8.09	3.18	.06	1.93	1.36	.37	6.68	26.8	44.0	19.9	4.03	6.41
IN.	9.31	3.55	.07	2.22	1.41	.43	7.45	30.93	49.10	22.90	4.65	7.14
AC-FT	1,480	564	11	353	224	68	1,180	4,920	7,800	3,640	740	1,130

CAL YR 1970 TOTAL 5,564.38 MEAN 15.2 MAX 100 MIN .10 CFSM 5.10 IN 69.46 AC-FT 11,040
WTR YR 1971 TOTAL 11,149.05 MEAN 30.5 MAX 200 MIN .10 CFSM 10.2 IN 139.18 AC-FT 22,110

15109000 Fish Creek near Auke Bay

LOCATION.--Lat 58°19'50", long 134°35'20", on Douglas Island, in North Tongass National Forest, on right bank 400 ft upstream from bridge on North Douglas Highway and 4.5 miles southeast of Auke Bay.

DRAINAGE AREA.--13.6 sq mi.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 17 ft (by levels from tide line).

AVERAGE DISCHARGE.--13 years, 77.9 cfs (77.79 inches per year, 56,440 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 950 cfs Oct. 15 (gage height, 4.24 ft); maximum gage height, 5.56 ft Jan. 5 (backwater from ice); minimum daily, 7.0 cfs Jan. 2.
Period of record: Maximum discharge, 2,120 cfs Oct. 2, 1961 (gage height, 5.05 ft), from rating curve extended above 1,600 cfs; maximum gage height, 7.54 ft Jan. 30, 1962 (ice jam); minimum daily discharge, 1.0 cfs Feb. 4-7, 1966.

REMARKS.--Records good except those for winter period and those for periods of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	120	10	8.0	9.0	25	13	130	90	36	30	81
2	254	83	10	7.0	9.0	20	14	120	80	46	208	75
3	159	54	10	8.0	9.0	18	16	138	70	36	201	129
4	85	41	9.5	30	9.0	16	16	86	65	36	64	71
5	60	33	10	100	9.0	16	19	49	70	30	43	83
6	48	28	9.5	400	9.0	14	24	118	100	30	41	126
7	46	25	9.5	90	9.0	11	30	340	100	30	246	168
8	46	24	9.5	60	9.5	10	34	101	100	28	79	165
9	48	21	9.5	55	10	10	40	56	95	26	53	147
10	147	20	10	50	11	10	48	126	90	26	48	66
11	88	37	11	45	12	10	48	254	85	26	41	52
12	153	44	12	40	16	10	46	177	80	26	34	49
13	138	33	13	35	50	10	44	168	70	26	32	61
14	98	35	14	30	60	11	42	108	65	63	66	46
15	528	86	15	25	60	11	40	79	55	165	103	38
16	159	57	14	22	70	12	46	67	55	434	132	32
17	77	64	13	19	60	13	55	74	55	115	57	79
18	56	36	12	17	50	13	60	98	55	72	41	108
19	81	26	11	15	45	14	55	135	55	63	103	81
20	66	46	10	14	35	14	55	120	60	81	103	49
21	46	14	10	13	40	15	60	204	80	85	64	52
22	38	13	10	12	40	15	55	147	80	54	103	43
23	36	12	10	12	45	15	55	92	70	41	88	34
24	42	12	10	11	45	14	50	113	90	36	96	31
25	38	12	10	11	40	14	50	138	90	37	74	27
26	47	11	10	10	40	14	55	144	80	43	147	23
27	96	11	10	10	35	13	70	159	65	40	66	21
28	64	10	10	9.5	30	13	100	150	50	41	44	20
29	270	10	10	9.0	------	13	130	160	70	36	35	18
30	282	10	10	9.0	------	13	140	160	46	32	31	46
31	132	------	9.0	9.0	------	13	------	100	------	30	31	------
TOTAL	3,622	1,028	331.5	1,185.5	866.5	420	1,510	4,111	2,216	1,870	2,504	2,021
MEAN	117	34.3	10.7	38.2	30.9	13.5	50.3	133	73.9	60.3	80.8	67.4
MAX	528	120	15	400	70	25	140	340	100	434	246	168
MIN	36	10	9.0	7.0	9.0	10	13	49	46	26	30	18
CFSM	8.60	2.52	.79	2.81	2.27	.99	3.70	9.78	5.43	4.43	5.94	4.96
IN.	9.91	2.81	.91	3.24	2.37	1.15	4.13	11.24	6.06	5.12	6.85	5.53
AC-FT	7,180	2,040	658	2,350	1,720	833	3,000	8,150	4,400	3,710	4,970	4,010

CAL YR 1970 TOTAL 29,827.2 MEAN 81.7 MAX 874 MIN 7.0 CFSM 6.01 IN 81.59 AC-FT 59,160
WTR YR 1971 TOTAL 21,685.5 MEAN 59.4 MAX 528 MIN 7.0 CFSM 4.37 IN 59.32 AC-FT 43,010

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
10-15	1030	4.24	950	7-16	0715	4.19	901

15202000 Tazlina River near Glennallen

LOCATION.--Lat 62°03'20", long 145°25'34", in W½ sec.9, T.3 N., R.1 W., near center of span on downstream side of bridge on Richardson Highway, 2 miles upstream from mouth, 4 miles downstream from Moose Creek, and 5 miles southeast of Glennallen.

DRAINAGE AREA.--2,670 sq mi, approximately.

PERIOD OF RECORD.--August 1949 to September 1950, October 1951 to current year. Discharge measurements only, in 1951.

GAGE.--Nonrecording gage. Datum of gage is 1,009.13 ft above mean sea level. Prior to Mar. 6, 1968, at datum 10 ft higher.

AVERAGE DISCHARGE.--21 years (1949-50, 1951-71), 4,080 cfs (2,956,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 39,700 cfs Sept. 4 (gage height, 20.90 ft, from graph based on gage readings) caused by release of stored water behind ice dam upstream; minimum daily, 150 cfs Mar. 31 to Apr. 18.
Period of record: Maximum discharge, 60,700 cfs Aug. 14, 1962 (gage height, 13.19 ft, datum then in use), caused by release of stored water behind ice dam upstream; minimum not determined.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,590	1,400	800	400	190	170	150	200	1,200	8,130	14,100	19,800
2	4,490	1,400	750	380	190	160	150	210	1,240	8,260	13,700	25,800
3	3,980	1,400	750	360	190	160	150	220	1,280	8,620	12,500	33,600
4	3,750	1,400	750	360	190	160	150	230	1,300	9,110	12,700	36,200
5	3,440	1,400	750	340	180	160	150	240	1,350	9,160	13,600	28,200
6	3,360	1,300	700	340	180	160	150	250	1,320	9,600	14,100	22,800
7	3,200	1,300	700	320	180	160	150	250	1,600	9,630	15,000	19,400
8	3,120	1,300	650	300	180	160	150	270	1,730	9,840	15,500	17,900
9	2,940	1,200	650	300	180	160	150	270	1,830	9,840	15,500	13,400
10	2,930	1,200	600	300	180	160	150	280	2,180	10,300	15,800	12,800
11	2,740	1,200	600	300	180	160	150	300	2,400	10,600	17,600	12,100
12	2,560	1,200	600	280	180	160	150	310	2,600	11,000	17,900	11,400
13	2,580	1,100	550	280	180	160	150	330	2,890	11,900	18,300	11,000
14	2,540	1,100	550	280	180	160	150	340	3,060	12,500	18,300	8,260
15	2,400	1,100	500	260	180	160	150	360	3,240	13,100	17,600	8,000
16	2,340	1,100	500	260	180	160	150	370	3,340	13,400	15,800	8,600
17	2,300	1,000	480	260	180	160	150	390	3,550	14,800	15,100	9,630
18	2,240	1,000	480	260	180	160	150	410	3,620	15,400	15,400	8,620
19	2,200	1,000	460	260	180	160	160	440	3,870	15,600	14,600	7,000
20	2,000	950	460	240	180	160	160	460	4,060	16,400	14,300	5,250
21	1,960	950	460	240	180	160	160	490	4,110	16,000	14,100	5,070
22	1,900	900	460	240	180	160	160	520	4,190	15,100	13,800	4,690
23	1,800	900	460	220	180	160	160	560	4,520	14,600	13,000	4,700
24	1,700	900	440	220	180	160	170	600	4,890	14,400	11,600	4,660
25	1,600	850	440	220	180	160	170	640	5,210	13,700	11,000	4,540
26	1,500	850	440	200	170	160	170	700	5,620	14,100	11,900	4,540
27	1,500	800	440	200	170	160	180	760	6,020	14,300	11,900	4,510
28	1,500	800	420	200	170	160	180	840	6,400	14,500	11,800	4,400
29	1,400	800	420	200	------	160	190	920	7,340	14,700	13,800	4,360
30	1,400	800	420	200	------	160	190	1,000	7,420	14,800	13,800	4,000
31	1,400	------	400	190	------	150	------	1,100	------	14,600	16,400	------
TOTAL	77,360	32,600	17,080	8,410	5,050	4,960	4,750	14,260	103,380	387,990	450,500	365,230
MEAN	2,495	1,087	551	271	180	160	158	460	3,446	12,520	14,530	12,170
MAX	4,590	1,400	800	400	190	170	190	1,100	7,420	16,400	18,300	36,200
MIN	1,400	800	400	190	170	150	150	200	1,200	8,130	11,000	4,000
AC-FT	153,400	64,660	33,880	16,680	10,020	9,840	9,420	28,280	205,100	769,600	893,600	724,400

CAL YR 1970 TOTAL 1,075,465 MEAN 2,946 MAX 17,000 MIN 220 AC-FT 2,133,000
WTR YR 1971 TOTAL 1,471,570 MEAN 4,032 MAX 36,200 MIN 150 AC-FT 2,919,000

NOTE.--No gage-height record Oct. 25 to June 1.

15208000 Tonsina River at Tonsina

LOCATION.--Lat 61°39'48", long 145°10'50", near right bank on downstream side of bridge on Richardson Highway at Tonsina, 0.4 mile upstream from Bernard Creek, and 0.6 mile upstream from Squirrel Creek.

DRAINAGE AREA.--420 sq mi, approximately.

PERIOD OF RECORD.--May 1950 to December 1954, January to September 1955 (fragmentary), October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,500 ft (from topographic map). Prior to Oct. 16, 1957, nonrecording gage at site 200 ft upstream at same datum. Oct. 17, 1957 to Apr. 18, 1967, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years (1950-54, 1955-71), 851 cfs (27.52 inches per year, 616,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,750 cfs July 16 (gage height, 4.14 ft); minimum daily, 70 cfs Mar. 16 to Apr. 7. Period of record: Maximum discharge, 8,490 cfs June 17, 1962 (gage height, 4.91 ft, from graph based on gage readings); maximum gage height, 7.00 ft June 8, 1957, from graph based on gage readings, site then in use; minimum discharge not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	522	220	140	100	85	75	70	150	419	3,120	2,500	1,170
2	510	220	140	100	85	75	70	160	430	2,610	2,810	1,190
3	480	220	140	100	85	75	70	170	399	2,270	3,040	1,200
4	460	220	140	100	85	75	70	190	414	2,060	2,990	1,180
5	440	220	140	100	85	75	70	200	491	2,080	2,710	1,120
6	420	200	130	100	85	75	70	210	622	2,250	2,420	1,070
7	400	200	130	100	85	75	70	230	769	2,310	2,260	1,020
8	400	200	120	100	85	75	75	250	861	2,400	2,160	951
9	400	200	120	100	85	75	75	260	976	2,510	2,150	880
10	380	200	110	100	85	75	75	280	1,120	2,650	2,320	810
11	360	200	110	100	80	75	75	280	1,280	2,890	2,590	757
12	340	180	110	100	80	75	75	300	1,350	3,140	2,750	710
13	340	180	110	100	80	75	75	320	1,350	3,460	2,660	669
14	320	180	110	100	80	75	75	320	1,400	4,080	2,550	636
15	300	170	110	100	80	75	75	340	1,480	4,480	2,430	601
16	280	170	110	95	80	70	80	340	1,580	4,350	2,230	596
17	280	170	110	95	80	70	80	360	1,610	3,780	2,010	585
18	260	170	110	95	80	70	80	360	1,550	3,180	1,840	566
19	260	170	110	95	80	70	85	380	1,530	2,730	1,760	546
20	260	160	110	95	80	70	85	380	1,700	2,490	1,740	539
21	240	160	110	90	80	70	90	400	2,090	2,390	1,720	560
22	240	160	110	90	80	70	90	400	2,450	2,260	1,710	604
23	240	160	110	90	80	70	95	400	2,540	2,080	1,680	608
24	220	160	110	90	80	70	100	400	2,940	1,890	1,610	602
25	220	160	110	90	80	70	100	420	3,560	1,810	1,540	589
26	220	150	110	90	80	70	110	423	3,740	1,930	1,480	577
27	220	150	110	90	80	70	120	376	3,860	2,120	1,400	554
28	220	150	110	90	80	70	120	362	3,920	2,310	1,330	529
29	220	150	100	90	------	70	130	374	3,880	2,470	1,250	510
30	220	150	100	90	------	70	140	355	3,620	2,430	1,180	491
31	220	------	100	90	------	70	------	351	------	2,400	1,160	------
TOTAL	9,892	5,400	3,590	2,965	2,290	2,245	2,595	9,741	53,931	82,930	63,980	22,420
MEAN	319	180	116	95.6	81.8	72.4	86.5	314	1,798	2,675	2,064	747
MAX	522	220	140	100	85	75	140	423	3,920	4,480	3,040	1,200
MIN	220	150	100	90	80	70	70	150	399	1,810	1,160	491
CFSM	.76	.43	.28	.23	.19	.17	.21	.75	4.28	6.37	4.91	1.78
IN.	.88	.48	.32	.26	.20	.20	.23	.86	4.78	7.35	5.67	1.99
AC-FT	19,620	10,710	7,120	5,880	4,540	4,450	5,150	19,320	107,000	164,500	126,900	44,470

CAL YR 1970 TOTAL 233,682 MEAN 640 MAX 2,900 MIN 80 CFSM 1.52 IN 20.70 AC-FT 463,500
WTR YR 1971 TOTAL 261,979 MEAN 718 MAX 4,480 MIN 70 CFSM 1.71 IN 23.20 AC-FT 519,600

NOTE.--No gage-height record Oct. 3 to May 14.

15208100 Squirrel Creek at Tonsina

LOCATION.--Lat 61°40'05", long 145°10'26", in NW¼ sec.26, T.2 S., R.1 E., on left downstream wingwall of bridge at mile 79.5 on Richardson Highway, 0.3 mile northeast of Tonsina River bridge, and 0.3 mile upstream from mouth.

DRAINAGE AREA.--70.5 sq mi.

PERIOD OF RECORD.--August 1963 to June 1965 (peak flows only). July 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,520 ft (from topographic map). Aug. 9, 1963 to June 29, 1965, crest-stage gage 60 ft upstream at datum 7 ft lower.

AVERAGE DISCHARGE.--6 years, 29.2 cfs (21,160 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 308 cfs June 11 (gage height, 3.04 ft); minimum daily, 11 cfs Dec. 7-22, Dec. 26 to Feb. 6.
Period of record: Maximum discharge, 1,200 cfs June 1964 (gage height, 12.64 ft, from floodmarks, site and datum then in use), from rating curve extended above 230 cfs; minimum not determined.

REMARKS.--Records good except those for winter months, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska 1970: 1968 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	19	12	11	11	12	12	14	66	49	21	21
2	29	19	12	11	11	12	12	14	70	54	21	21
3	28	19	12	11	11	12	13	15	64	65	22	21
4	27	18	12	11	11	12	13	15	68	59	21	21
5	26	18	12	11	11	12	13	16	90	61	20	21
6	25	18	12	11	11	12	13	16	123	72	21	21
7	24	17	11	11	12	12	13	17	157	55	21	21
8	24	17	11	11	12	12	13	17	205	46	21	21
9	24	17	11	11	12	12	13	18	216	41	21	21
10	23	16	11	11	12	12	13	20	268	36	20	21
11	23	16	11	11	12	12	13	21	277	33	20	21
12	23	16	11	11	12	12	13	24	216	30	20	21
13	22	16	11	11	12	12	13	28	170	30	21	20
14	22	15	11	11	12	12	13	30	145	29	25	20
15	22	15	11	11	12	12	13	31	145	28	27	20
16	22	15	11	11	12	12	13	33	128	26	22	21
17	21	15	11	11	12	12	13	34	86	24	21	21
18	21	14	11	11	12	12	13	36	67	24	21	21
19	21	14	11	11	12	12	13	38	70	23	21	21
20	21	14	11	11	12	12	14	40	88	24	21	21
21	21	14	11	11	12	12	14	43	110	22	21	22
22	21	14	11	11	12	12	14	46	77	21	21	26
23	21	13	12	11	12	12	14	50	75	21	21	25
24	21	13	12	11	12	12	14	56	90	21	21	23
25	21	13	12	11	12	12	14	68	70	22	22	22
26	20	13	11	11	12	12	14	66	55	21	22	22
27	20	13	11	11	12	12	14	62	51	21	21	22
28	20	12	11	11	12	12	14	60	45	21	20	22
29	20	12	11	11	------	12	14	64	67	21	20	22
30	20	12	11	11	------	12	14	62	59	20	20	22
31	20	------	11	11	------	12	------	60	------	21	21	------
TOTAL	702	457	350	341	330	372	399	1,114	3,418	1,041	658	645
MEAN	22.6	15.2	11.3	11.0	11.8	12.0	13.3	35.9	114	33.6	21.2	21.5
MAX	29	19	12	11	12	12	14	68	277	72	27	26
MIN	20	12	11	11	11	12	12	14	45	20	20	20
AC-FT	1,390	906	694	676	655	738	791	2,210	6,780	2,060	1,310	1,280

CAL YR 1970 TOTAL 7,599 MEAN 20.8 MAX 97 MIN 10 AC-FT 15,070
WTR YR 1971 TOTAL 9,827 MEAN 26.9 MAX 277 MIN 11 AC-FT 19,490

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-11	0300	3.04	308	06-29	1300	2.33	79
06-21	0300	2.54	126	07-06	0430	2.35	82
06-24	0400	2.45	103				

NOTE.--No gage-height record Oct. 3 to Apr. 12.

15212000 Copper River near Chitina

LOCATION.--Lat 61°27'56", long 144°27'21", on right bank at head of Woods Canyon, 0.5 mile downstream from Taral Creek and abandoned Indian village of Taral, 2.2 miles upstream from Tenas Creek, and 3.5 miles south of Chitina.

DRAINAGE AREA.--20,600 sq mi, approximately.

PERIOD OF RECORD.--July to September 1950, May to November 1952, October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (from topographic map). Prior to June 2, 1952, nonrecording gage at site 0.2 mile upstream at datum 1.4 ft higher.

AVERAGE DISCHARGE.--16 years, 36,560 cfs (26,490,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 265,000 cfs July 15 (gage height, 29.94 ft) extended above 130,000 cfs; minimum daily, 3,800 cfs Mar. 21 to Apr. 3.
Period of record: Maximum discharge, 265,000 cfs July 15, 1971 (gage height, 29.94 ft) extended above 130,000 cfs; minimum not determined.
Maximum flood since 1950, that of July 15, 1971.

REMARKS.--Records poor. Some diurnal fluctuation caused by glacier melt at the source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26,000	11,000	7,500	5,500	4,400	4,000	3,800	11,000	29,200	102,000	184,000	88,000
2	26,000	11,000	7,500	5,500	4,400	4,000	3,800	12,000	29,000	94,000	190,000	90,000
3	25,500	11,000	7,500	5,500	4,400	4,000	3,800	13,000	29,200	82,800	183,000	90,000
4	24,500	11,000	7,000	5,500	4,400	4,000	4,000	14,000	27,600	77,800	163,000	86,000
5	23,000	11,000	7,000	5,500	4,400	4,000	4,000	16,000	29,200	82,000	149,000	82,000
6	23,000	11,000	7,000	5,500	4,400	4,000	4,000	17,000	36,700	92,000	140,000	76,000
7	22,000	11,000	6,500	5,500	4,400	4,000	4,200	17,000	48,100	100,000	130,000	70,000
8	22,000	11,000	6,500	5,500	4,400	4,000	4,200	18,000	56,800	104,000	125,000	62,000
9	20,000	10,000	6,000	5,500	4,400	4,000	4,200	19,000	62,600	109,000	150,000	58,000
10	20,000	10,000	6,000	5,500	4,400	4,000	4,200	21,000	69,800	121,000	191,000	54,000
11	19,000	10,000	6,000	5,000	4,200	4,000	4,200	21,000	71,400	137,000	226,000	50,000
12	18,000	9,500	6,000	5,000	4,200	4,000	4,400	22,000	69,800	147,000	217,000	48,000
13	17,000	9,500	6,000	5,000	4,200	4,000	4,400	22,000	67,400	158,000	204,000	46,000
14	17,000	9,500	6,000	5,000	4,200	4,000	4,400	22,000	63,400	220,000	198,000	45,000
15	16,000	9,000	6,000	5,000	4,200	4,000	4,600	23,000	65,000	260,000	174,000	43,000
16	15,000	9,000	6,000	5,000	4,200	4,000	4,600	23,000	66,600	238,000	145,000	42,000
17	15,000	8,500	6,000	5,000	4,200	4,000	4,800	23,000	69,800	208,000	131,000	41,000
18	14,000	8,500	6,000	5,000	4,200	4,000	4,800	23,000	70,600	168,000	121,000	40,000
19	14,000	8,500	6,000	5,000	4,200	4,000	5,000	23,000	71,400	147,000	113,000	39,000
20	13,000	8,500	6,000	5,000	4,200	4,000	5,000	23,000	77,000	149,000	108,000	39,000
21	13,000	8,500	6,000	4,800	4,200	3,800	5,500	24,000	84,600	152,000	100,000	40,000
22	13,000	8,000	6,000	4,800	4,200	3,800	5,500	24,000	89,100	148,000	95,000	42,000
23	12,000	8,000	6,000	4,800	4,200	3,800	6,000	25,000	92,000	136,000	91,000	45,000
24	12,000	8,000	6,000	4,600	4,200	3,800	6,000	25,000	113,000	122,000	88,200	44,000
25	12,000	8,000	6,000	4,600	4,200	3,800	6,500	26,000	140,000	118,000	85,000	42,000
26	12,000	8,000	5,500	4,600	4,200	3,800	7,000	27,000	120,000	133,000	85,000	40,000
27	12,000	8,000	5,500	4,600	4,200	3,800	7,500	27,000	135,000	155,000	85,000	39,000
28	12,000	7,500	5,500	4,600	4,200	3,800	8,000	27,000	132,000	167,000	85,000	36,000
29	12,000	7,500	5,500	4,600	------	3,800	9,000	27,000	126,000	176,000	80,000	35,000
30	12,000	7,500	5,500	4,600	------	3,800	10,000	30,300	116,000	170,000	80,000	32,000
31	12,000	------	5,500	4,600	------	3,800	------	29,200	------	184,000	85,000	------
TOTAL	524,000	277,500	191,500	156,200	119,600	121,800	157,400	674,500	2,258.3M	4,457.6M	4,201.2M	1,584.0M
MEAN	16,900	9,250	6,177	5,039	4,271	3,929	5,247	21,760	75,280	143,800	135,500	52,800
MAX	26,000	11,000	7,500	5,500	4,400	4,000	10,000	30,300	140,000	260,000	226,000	90,000
MIN	12,000	7,500	5,500	4,600	4,200	3,800	3,800	11,000	27,600	77,800	80,000	32,000
AC-FT	1,039M	550,400	379,800	309,800	237,200	241,600	312,200	1,338M	4,479M	8,842M	8,333M	3,142M

CAL YR 1970 TOTAL 9,737,500 MEAN 26,680 MAX 141,000 MIN 4,500 AC-FT 19,310,000
WTR YR 1971 TOTAL 14,723,600 MEAN 40,340 MAX 260,000 MIN 3,800 AC-FT 29,200,000

NOTE.--No gage-height record Oct. 5 to May 12 and Aug. 25 to Sept. 30.

M.--Expressed in thousands.

15216000 Power Creek near Cordova

LOCATION.--Lat 60°35'14", long 145°37'05", on right bank at old bridge site, 1 mile upstream from Eyak Lake, and 5.5 miles northeast of Cordova.

DRAINAGE AREA.--20.5 sq mi.

PERIOD OF RECORD.--July to November 1913 (fragmentary), August 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 33.5 ft above mean sea level (river profile survey). July to November 1913, nonrecording gage 0.5 mile upstream at different datum. August 1947 to March 1960, water-stage recorder at site on left bank at same datum.

AVERAGE DISCHARGE.--24 years, 247 cfs (163.62 inches per year, 179,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,090 cfs July 25 (gage height, 4.94 ft); minimum daily, 25 cfs Mar. 27 to Apr. 5.
Period of record: Maximum discharge recorded, 5,540 cfs Sept. 25, 1949 (gage height, 7.65 ft), from rating curve extended above 1,450 cfs; minimum recorded, 13 cfs Apr. 29, 1950 (gage height, 1.50 ft), but may have been less during periods of no gage-height record.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	718	457	74	51	34	29	25	50	682	522	1,620	470
2	1,010	456	73	50	34	29	25	60	491	474	1,150	390
3	449	459	72	70	34	29	25	80	310	436	795	435
4	313	347	71	100	34	29	25	70	248	449	646	435
5	242	251	70	200	34	29	25	60	258	531	550	335
6	224	201	70	150	60	28	26	70	349	588	550	349
7	194	179	69	100	100	28	28	64	463	572	535	294
8	175	162	68	70	90	28	30	62	526	587	646	247
9	173	145	68	60	80	28	35	60	588	682	781	247
10	181	131	67	55	70	28	40	64	527	792	676	218
11	154	139	67	50	60	28	50	72	458	831	628	193
12	157	138	66	47	55	27	70	78	417	765	580	179
13	649	214	66	45	50	27	60	101	361	765	616	187
14	396	149	100	44	45	27	55	93	335	812	592	235
15	234	126	90	42	42	27	50	83	321	667	510	200
16	183	112	80	42	40	27	47	77	335	594	445	465
17	168	103	70	40	38	27	45	74	326	565	435	575
18	145	97	65	40	36	27	43	75	325	534	505	310
19	131	93	61	40	36	26	42	88	345	564	475	290
20	121	90	60	40	34	26	41	102	439	693	475	335
21	114	88	59	40	34	26	40	159	644	570	390	990
22	108	86	58	38	34	26	40	193	544	460	400	535
23	100	84	100	38	32	26	45	186	584	412	425	345
24	97	82	150	38	32	26	50	167	670	680	347	258
25	94	81	100	38	32	26	70	155	581	1,570	326	220
26	88	80	85	38	30	26	90	149	622	1,150	290	193
27	90	78	75	36	30	25	85	145	615	854	266	171
28	90	77	65	36	30	25	80	211	538	854	238	153
29	143	76	58	36	------	25	70	228	517	688	258	141
30	378	75	54	36	------	25	60	212	554	634	415	149
31	702	------	52	36	------	25	------	316	------	823	760	------
TOTAL	8,021	4,856	2,283	1,746	1,260	835	1,417	3,604	13,973	21,118	17,325	9,544
MEAN	259	162	73.6	56.3	45.0	26.9	47.2	116	466	681	559	318
MAX	1,010	459	150	200	100	29	90	316	682	1,570	1,620	990
MIN	88	75	52	36	30	25	25	50	248	412	238	141
CFSM	12.6	7.90	3.59	2.75	2.20	1.31	2.30	5.66	22.7	33.2	27.3	15.5
IN.	14.56	8.81	4.14	3.17	2.29	1.52	2.57	6.54	25.36	38.32	31.44	17.32
AC-FT	15,910	9,630	4,530	3,460	2,500	1,660	2,810	7,150	27,720	41,890	34,360	18,930

CAL YR 1970 TOTAL 94,302 MEAN 258 MAX 1,680 MIN 32 CFSM 12.6 IN 171.12 AC-FT 187,000
WTR YR 1971 TOTAL 85,982 MEAN 236 MAX 1,620 MIN 25 CFSM 11.5 IN 156.03 AC-FT 170,500

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-02	0130	4.85	1,800	08-01	0930	4.93	2,070
07-25	1400	4.94	2,090	09-21	1430	4.60	1,600

NOTE.--No gage-height record Nov. 22 to May 5.

15219000 West Fork Olsen Bay Creek near Cordova

LOCATION.--Lat 60°45'41", long 146°10'20", on left bank 600 ft upstream from confluence with East Fork, and 21 miles northwest of Cordova.

DRAINAGE AREA.--4.78 sq mi.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 32.0 cfs (90.91 inches per year, 23,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 524 cfs Aug. 1 (gage height, 4.01 ft), from rating curve extended above 150 cfs on basis of slope-area measurement of peak flow; maximum gage height, 5.39 ft Apr. 12 (backwater from ice); minimum daily discharge, 2.5 cfs Mar. 31 to Apr. 5.
Period of record: Maximum discharge, 988 cfs Aug. 21, 1966 (gage height, 4.79 ft), from rating curve extended above 100 cfs; maximum gage height, 5.44 ft Mar. 29, 1966 (backwater from ice); minimum daily discharge, 0.5 cfs Mar. 5-21, 1966.

REMARKS.--Records fair except those for the winter period, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	88	7.8	5.1	3.6	3.0	2.5	12	210	87	275	30
2	181	91	7.6	5.0	3.6	3.0	2.5	15	91	84	97	27
3	52	77	7.6	10	3.6	3.0	2.5	29	48	70	62	26
4	29	50	7.4	25	3.5	2.9	2.5	16	58	68	45	25
5	23	32	7.4	50	3.5	2.9	2.5	13	100	79	37	22
6	24	24	7.2	30	10	2.9	3.0	33	135	81	49	20
7	23	21	7.2	10	20	2.9	3.5	29	141	76	48	18
8	20	19	7.0	7.0	10	2.8	4.0	18	121	74	104	17
9	21	17	7.0	6.0	8.0	2.8	5.0	14	103	90	111	16
10	23	15	6.9	5.5	7.0	2.8	7.0	15	95	97	60	15
11	20	15	6.9	5.0	6.0	2.8	10	31	117	92	46	14
12	20	18	6.9	4.8	5.5	2.8	20	43	93	76	39	13
13	167	25	6.9	4.6	5.0	2.7	20	65	76	87	47	14
14	67	20	11	4.5	4.6	2.7	18	32	66	119	55	18
15	33	17	9.6	4.4	4.2	2.7	15	24	65	76	35	18
16	24	15	8.1	4.3	4.0	2.7	12	24	69	60	30	38
17	21	13	7.3	4.3	3.8	2.7	10	20	58	48	27	44
18	19	12	6.6	4.2	3.7	2.7	9.2	21	63	43	24	28
19	17	11	6.3	4.2	3.6	2.6	8.8	34	70	42	24	35
20	15	10	6.3	4.1	3.5	2.6	8.1	43	103	61	23	47
21	14	10	6.0	4.1	3.4	2.6	7.3	47	177	45	21	181
22	14	9.6	6.0	4.0	3.4	2.6	7.3	36	103	33	19	61
23	12	9.6	10	4.0	3.3	2.6	8.1	35	108	30	18	31
24	12	9.6	25	3.9	3.3	2.6	8.1	43	108	87	18	24
25	11	9.6	10	3.9	3.2	2.6	16	53	84	294	18	20
26	11	8.8	9.0	3.8	3.2	2.6	20	40	93	134	18	18
27	11	8.5	8.0	3.8	3.1	2.6	18	38	89	134	17	15
28	12	8.1	7.0	3.8	3.1	2.6	19	79	77	107	15	13
29	33	8.0	6.0	3.7	------	2.6	16	59	97	52	16	12
30	120	7.8	5.5	3.7	------	2.6	13	56	116	43	25	12
31	209	------	5.3	3.7	------	2.5	------	94	------	77	50	------
TOTAL	1,390	679.6	246.8	240.4	142.7	84.5	298.9	1,111	2,934	2,546	1,473	872
MEAN	44.8	22.7	7.96	7.75	5.10	2.73	9.96	35.8	97.8	82.1	47.5	29.1
MAX	209	91	25	50	20	3.0	20	94	210	294	275	181
MIN	11	7.8	5.3	3.7	3.1	2.5	2.5	12	48	30	15	12
CFSM	9.37	4.75	1.67	1.62	1.07	.57	2.08	7.49	20.5	17.2	9.94	6.09
IN.	10.82	5.29	1.92	1.87	1.11	.66	2.33	8.65	22.83	19.81	11.46	6.79
AC-FT	2,760	1,350	490	477	283	168	593	2,200	5,820	5,050	2,920	1,730

CAL YR 1970 TOTAL 13,659.2 MEAN 37.4 MAX 539 MIN 4.0 CFSM 7.82 IN 106.30 AC-FT 27,090
WTR YR 1971 TOTAL 12,018.9 MEAN 32.9 MAX 294 MIN 2.5 CFSM 6.88 IN 93.54 AC-FT 23,840

PEAK DISCHARGE (BASE, 480 CFS).--Aug. 1 (0800) 524 cfs (4.01 ft).

NOTE.--No gage-height record Jan. 27 to Apr. 11.

15236900 Wolverine Creek near Lawing
(International Hydrological Decade River Station)

LOCATION.--Lat 60°22'14", long 148°53'48", in NE¼ sec.10, T.3 N., R.3 E., on left bank, 2.0 miles upstream from Nellie Juan River, and 16 miles east of Lawing.

DRAINAGE AREA.--9.51 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 83.2 cfs (118.81 inches per year, 60,280 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 497 cfs Aug. 18 (gage height, 4.77 ft); maximum gage height, 14.7 ft, from floodmarks, about June 9 (flow over dense snow); minimum daily discharge, 0.5 cfs Jan. 23 to May 26.
Period of record: Maximum discharge, 960 cfs Sept. 6, 1967 (gage height, 5.94 ft); extended above 470 cfs; maximum gage height, 14.7 ft, from floodmarks about June 9, 1971 (flow over dense snow); minimum daily discharge, 0.5 cfs Feb. 20 to Apr. 1, 1967 and Jan. 23 to May 26, 1971.

REMARKS.--Records poor. Recording air-temperature gage located at station. A recording precipitation gage and air-temperature gage located at 3,300 ft altitude in basin. A third air-temperature recorder is located at 4,700 ft altitude.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	108	3.5	1.0	.50	.50	.50	.50	2.0	44	292	328
2	55	74	3.5	.90	.50	.50	.50	.50	2.5	42	300	302
3	40	48	3.0	.90	.50	.50	.50	.50	3.0	40	355	276
4	31	58	3.0	.90	.50	.50	.50	.50	3.5	50	388	216
5	28	59	3.0	.80	.50	.50	.50	.50	5.0	100	345	206
6	24	51	3.0	.80	.50	.50	.50	.50	7.0	120	355	190
7	22	47	2.5	.80	.50	.50	.50	.50	15	140	319	199
8	22	50	2.5	.70	.50	.50	.50	.50	30	180	319	178
9	23	50	2.5	.70	.50	.50	.50	.50	40	254	328	155
10	20	34	2.5	.70	.50	.50	.50	.50	40	290	352	141
11	17	28	2.0	.70	.50	.50	.50	.50	35	286	408	132
12	15	36	2.0	.70	.50	.50	.50	.50	30	268	379	135
13	20	33	2.0	.70	.50	.50	.50	.50	28	252	369	135
14	17	22	1.8	.60	.50	.50	.50	.50	26	232	367	127
15	15	16	1.8	.60	.50	.50	.50	.50	24	226	343	131
16	12	14	1.8	.60	.50	.50	.50	.50	22	226	333	179
17	12	12	1.6	.60	.50	.50	.50	.50	20	238	400	128
18	11	10	1.6	.60	.50	.50	.50	.50	20	240	438	114
19	10	9.0	1.6	.60	.50	.50	.50	.50	22	266	405	115
20	9.0	8.0	1.6	.60	.50	.50	.50	.50	30	290	405	131
21	8.5	7.5	1.4	.60	.50	.50	.50	.50	34	244	362	181
22	8.0	7.0	1.4	.60	.50	.50	.50	.50	40	206	386	168
23	8.0	6.5	1.4	.50	.50	.50	.50	.50	60	205	386	145
24	7.5	6.0	1.4	.50	.50	.50	.50	.50	65	268	336	131
25	7.0	5.5	1.2	.50	.50	.50	.50	.50	70	400	290	118
26	7.0	5.0	1.2	.50	.50	.50	.50	.50	60	355	266	97
27	7.0	4.5	1.2	.50	.50	.50	.50	1.0	55	292	234	72
28	7.0	4.0	1.2	.50	.50	.50	.50	1.0	50	276	246	60
29	7.0	4.0	1.0	.50	------	.50	.50	1.0	48	248	393	50
30	100	3.5	1.0	.50	------	.50	.50	1.5	46	218	381	40
31	281	------	1.0	.50	------	.50	------	1.5	------	268	362	------
TOTAL	891.0	820.5	60.2	20.20	14.00	15.50	15.00	19.00	933.0	6,764	10,842	4,580
MEAN	28.7	27.4	1.94	.65	.50	.50	.50	.61	31.1	218	350	153
MAX	281	108	3.5	1.0	.50	.50	.50	1.5	70	400	438	328
MIN	7.0	3.5	1.0	.50	.50	.50	.50	.50	2.0	40	234	40
CFSM	3.02	2.88	.20	.07	.05	.05	.05	.06	3.27	22.9	36.8	16.1
IN.	3.49	3.21	.24	.08	.05	.06	.06	.07	3.65	26.46	42.41	17.92
AC-FT	1,770	1,630	119	40	28	31	30	38	1,850	13,420	21,510	9,080

CAL YR 1970 TOTAL 21,888.70 MEAN 60.0 MAX 463 MIN 1.0 CFSM 6.31 IN 85.62 AC-FT 43,420
WTR YR 1971 TOTAL 24,974.40 MEAN 68.4 MAX 438 MIN .50 CFSM 7.19 IN 97.69 AC-FT 49,540

NOTE.--No gage-height record Nov. 16 to July 8.

15238600 Spruce Creek near Seward

LOCATION.--Lat 60°04'10", long 149°27'08", on left bank, 0.7 mile upstream from Resurrection Bay, and 2.4 miles south of Seward.

DRAINAGE AREA.--9.26 sq mi.

PERIOD OF RECORD.--September 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 580 cfs Oct. 31 (gage height, 5.72 ft); no flow Mar. 1 to Apr. 4.
Period of record: Maximum discharge, 2,720 cfs Oct. 11, 1969 (gage height, 8.53 ft), from rating curve extended above 900 cfs on basis of slope-area determination of peak flow; no flow Mar. 1-25, 1969 and Mar. 1 to Apr. 4, 1971.
Flood of Aug. 21, 1966 reached a stage of 10.1 ft, from floodmarks (discharge, 3,980 cfs).

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Alaska, 1970: 1967, 1968 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	199	17	6.5	1.0		0	4.0	80	135	210	141
2	76	115	16	15	1.0		0	4.5	75	131	200	145
3	72	83	15	45	1.0		0	5.0	70	135	255	125
4	68	105	15	25	1.0		0	5.5	65	153	225	97
5	65	90	14	15	2.0		.50	6.0	75	234	198	97
6	62	83	14	12	4.0		.50	7.0	90	243	208	90
7	60	76	13	10	10		.50	8.0	110	240	194	72
8	58	88	13	8.0	8.0		.50	9.0	150	249	194	70
9	56	92	12	7.0	6.0		.50	10	200	338	196	69
10	54	80	12	6.0	5.0		.50	11	180	410	196	63
11	52	64	11	5.0	4.0		.50	12	160	390	208	60
12	50	63	11	4.5	3.5		.50	14	145	328	185	57
13	54	66	10	4.0	3.0		.50	16	130	291	165	54
14	70	61	10	3.5	2.5		1.0	19	120	246	192	52
15	65	56	9.5	3.0	2.2		1.0	24	115	219	159	60
16	60	52	9.0	2.6	2.0		1.0	30	110	190	129	125
17	55	48	8.5	2.4	1.8		1.0	35	105	175	147	101
18	50	44	8.0	2.2	1.6		1.0	40	100	182	185	72
19	46	41	7.8	2.0	1.4		1.5	50	100	200	157	80
20	42	38	7.6	1.8	1.2		1.5	60	110	300	159	105
21	39	35	7.4	1.8	1.0		1.5	58	120	202	151	139
22	36	32	7.2	1.6	.80		2.0	52	130	216	149	115
23	34	29	7.0	1.6	.80		2.0	48	150	216	135	86
24	33	27	15	1.4	.60		2.0	46	250	434	117	70
25	32	25	30	1.4	.60		2.5	45	300	279	103	66
26	31	23	20	1.2	.40		2.5	46	270	246	97	60
27	30	21	15	1.2	.40		3.0	48	230	190	129	55
28	60	20	12	1.0	.20		3.0	50	200	159	107	52
29	55	19	10	1.0	------		3.5	55	170	151	185	50
30	177	18	8.0	1.0	------		3.5	60	150	159	159	48
31	407	------	7.0	1.0	------		------	70	------	198	153	------
TOTAL	2,129	1,793	372.0	194.7	67.00	0	38.00	948.0	4,260	7,239	5,247	2,476
MEAN	68.7	59.8	12.0	6.28	2.39	0	1.27	30.6	142	234	169	82.5
MAX	407	199	30	45	10	0	3.5	70	300	434	255	145
MIN	30	18	7.0	1.0	.20	0	0	4.0	65	131	97	48
CFSM	7.42	6.46	1.30	.68	.26	0	.14	3.30	15.3	25.3	18.3	8.91
IN.	8.55	7.20	1.49	.78	.27	0	.15	3.81	17.11	29.08	21.08	9.95
AC-FT	4,220	3,560	738	386	133	0	75	1,880	8,450	14,360	10,410	4,910

CAL YR 1970 TOTAL 30,098.0 MEAN 82.5 MAX 704 MIN 7.0 CFSM 8.91 IN 120.91 AC-FT 59,700
WTR YR 1971 TOTAL 24,763.7 MEAN 67.8 MAX 434 MIN 0.0 CFSM 7.32 IN 99.46 AC-FT 49,120

NOTE.--No gage-height record Nov. 14 to July 1.

15239000 Bradley River near Homer

LOCATION.--Lat 59°45'24", long 150°51'02", in NE¼SW¼ sec.8, T.5 S., R.9 W., on right bank about 800 ft downstream from Bradley Lake outlet, 3.5 miles upstream from unnamed tributary, and 26 miles northeast of Homer.

DRAINAGE AREA.--54.0 sq mi.

PERIOD OF RECORD.--July to August 1955, October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (from topographic map). July 13-22, 1955, nonrecording gage at site 1 mile upstream at different datum, and July 23 to Aug. 5, 1955, nonrecording gage at site 3 miles upstream at different datum.

AVERAGE DISCHARGE.--14 years, 408 cfs (102.60 inches per year, 295,600 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 2,270 cfs July 14 (gage height, 6.27 ft); minimum daily, 30 cfs Mar. 16 to Apr. 15. Period of record: Maximum discharge, 7,690 cfs Oct. 14, 1969 (gage height, 9.13 ft) extended above 2,400 cfs; minimum not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska, 1970: 1958, 1960 (M), 1961, 1963 (M), 1965-67, 1968 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	915	120	49	35	31	30	35	240	923	956	1,090
2	314	900	112	48	35	31	30	36	250	897	1,030	1,010
3	306	730	105	60	35	31	30	37	260	821	1,060	941
4	294	586	101	100	35	31	30	38	280	770	1,120	874
5	280	507	97	80	35	31	30	39	300	776	1,130	776
6	268	426	93	65	40	31	30	40	350	838	1,280	662
7	256	363	89	55	55	31	30	42	400	915	1,570	567
8	246	357	86	50	48	31	30	44	500	992	1,680	498
9	239	516	83	47	43	31	30	46	600	1,100	1,760	446
10	232	574	80	45	39	31	30	48	800	1,210	1,880	408
11	221	546	77	44	37	31	30	50	1,000	1,390	1,910	370
12	214	507	74	43	36	31	30	54	950	1,570	1,860	336
13	205	462	72	42	35	31	30	58	900	1,940	1,640	323
14	196	423	70	41	35	31	30	64	850	2,230	1,460	315
15	188	377	68	41	34	31	30	75	812	2,110	1,350	310
16	182	363	66	40	34	30	31	100	727	1,790	1,170	346
17	174	329	64	40	34	30	31	130	651	1,480	1,140	397
18	163	286	62	39	33	30	31	145	608	1,350	1,450	413
19	154	276	60	39	33	30	31	160	563	1,460	1,560	416
20	150	241	59	38	33	30	31	165	534	1,860	1,390	409
21	140	220	58	38	33	30	31	170	518	1,970	1,180	428
22	130	210	57	38	33	30	32	175	509	1,840	1,060	470
23	125	200	56	37	32	30	32	180	514	1,740	1,000	487
24	120	190	70	37	32	30	32	185	597	1,770	947	477
25	115	187	100	37	32	30	32	190	735	1,890	882	464
26	115	175	80	36	32	30	33	195	883	1,820	810	441
27	117	163	70	36	32	30	33	200	980	1,520	758	409
28	125	147	62	36	32	30	33	205	1,010	1,250	784	387
29	128	140	55	35	------	30	34	210	971	1,090	928	370
30	129	130	52	35	------	30	34	220	936	969	1,180	355
31	258	------	50	35	------	30	------	230	------	919	1,190	------
TOTAL	6,104	11,446	2,348	1,406	1,002	945	931	3,566	19,228	43,200	39,115	15,195
MEAN	197	382	75.7	45.4	35.8	30.5	31.0	115	641	1,394	1,262	507
MAX	320	915	120	100	55	31	34	230	1,010	2,230	1,910	1,090
MIN	115	130	50	35	32	30	30	35	240	770	758	310
CFSM	3.65	7.07	1.40	.84	.66	.56	.57	2.13	11.9	25.8	23.4	9.39
IN.	4.20	7.89	1.62	.97	.69	.65	.64	2.46	13.25	29.76	26.95	10.47
AC-FT	12,110	22,700	4,660	2,790	1,990	1,870	1,850	7,070	38,140	85,690	77,580	30,140

CAL YR 1970 TOTAL 150,184 MEAN 411 MAX 1,880 MIN 50 CFSM 7.61 IN 103.46 AC-FT 297,900
WTR YR 1971 TOTAL 144,486 MEAN 396 MAX 2,230 MIN 30 CFSM 7.33 IN 99.53 AC-FT 286,600

NOTE.--No gage-height record Nov. 29 to June 6.

15239900 Anchor River near Anchor Point

LOCATION.--Lat 59°44'50", long 151°45'11", in NE¼ sec.13, T.5 S., R.15 W., on left bank at downstream side of bridge on Sterling Highway, and 3.3 miles southeast of Anchor Point.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 168.64 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 187 cfs (19.09 inches per year, 135,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,860 cfs June 6 (gage height, 5.38 ft) from rating curve extended above 950 cfs on basis of slope-area and contracted-opening measurement of peak flow; maximum gage height, 6.94 ft Apr. 30 (backwater from ice); minimum daily discharge, 72 cfs Apr. 1-20.

Period of record: Maximum discharge, 1,860 cfs June 6, 1971 (gage height, 5.38 ft), from rating curve extended above 950 cfs on basis of slope-area and contracted-opening measurement of peak flow; maximum gage height, 7.00 ft Apr. 27, 1968 (backwater from ice); minimum discharge not determined.

REVISIONS.--The figures of maximum discharge for some water years have been revised, as shown in the following table. They supersede figures published in the WRD, Alaska report indicated.

WRD, Alaska	Water year	Date	Discharge (cfs)	Gage height (feet)
1966	1966	Sept. 19, 1966	1,280	4.67
1968	1968	May 13, 1968	1,140	4.39
1970	1970	Oct. 14, 1969	1,370	4.72

REMARKS.--Records fair except those for the period Nov. 17 to May 21, which are poor. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska, 1970: 1965 (M). The figures of peak discharge for water years 1966 and 1970 have been revised as shown below. They supersede figures published in WRD Alaska, 1970.

REVISED PEAK DISCHARGE.--1966: May 14 (0700) 1,230 cfs (4.51 ft); Sept. 19 (0100) 1,280 cfs (4.67 ft).

1970: Oct. 7 (0900) 1,210 cfs (4.48 ft); Oct. 11 (1830) 1,350 cfs (4.68 ft); Oct. 14 (1900) 1,370 cfs (4.72 ft); May 16 (0330) 1,140 cfs (4.38 ft).

15239900 Anchor River near Anchor Point--(continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	1,170	95	88	80	74	72	110	1,470	264	233	230
2	127	474	90	88	80	74	72	120	1,310	343	248	193
3	126	219	90	90	80	74	72	130	1,210	388	219	163
4	107	199	90	95	80	74	72	140	1,480	416	164	164
5	106	212	90	100	80	74	72	150	1,640	285	177	208
6	240	181	90	95	85	74	72	160	1,680	231	648	167
7	267	160	90	90	90	74	72	170	1,610	203	474	145
8	188	152	90	90	90	74	72	170	1,340	193	333	135
9	195	302	90	88	85	74	72	180	1,450	179	350	130
10	231	320	90	88	85	74	72	180	1,340	165	260	129
11	176	289	88	88	80	74	72	190	1,060	155	221	122
12	164	272	88	86	80	74	72	200	915	147	205	119
13	180	240	88	86	80	74	72	220	931	398	222	117
14	164	216	88	86	78	74	72	260	1,010	442	217	115
15	148	172	88	86	78	74	72	320	968	288	179	115
16	133	150	88	84	78	74	72	420	610	224	165	137
17	133	130	88	84	78	74	72	600	476	190	158	124
18	108	120	88	84	76	74	72	800	408	175	151	113
19	99	120	88	84	76	74	72	900	361	169	146	125
20	91	110	88	84	76	74	72	1,000	347	181	142	125
21	82	110	88	82	76	74	75	1,050	334	170	150	223
22	79	110	88	82	76	74	75	1,070	308	160	139	208
23	76	100	90	82	76	74	80	1,120	283	153	133	160
24	75	100	100	82	76	74	80	1,180	273	151	131	139
25	75	100	120	82	76	74	85	1,230	251	174	124	125
26	74	100	110	82	76	74	90	824	225	164	125	119
27	74	95	100	80	76	74	95	911	206	147	119	113
28	80	95	95	80	76	74	100	917	205	149	112	155
29	100	95	90	80	------	74	100	961	205	137	115	232
30	211	95	90	80	------	74	110	1,050	198	131	117	328
31	395	------	88	80	------	74	------	1,120	------	140	186	------
TOTAL	4,432	6,208	2,844	2,656	2,223	2,294	2,330	17,853	24,104	6,712	6,363	4,678
MEAN	143	207	91.7	85.7	79.4	74.0	77.7	576	803	217	205	156
MAX	395	1,170	120	100	90	74	110	1,230	1,680	442	648	328
MIN	74	95	88	80	76	74	72	110	198	131	112	113
CFSM	1.08	1.56	.69	.64	.60	.56	.58	4.33	6.04	1.63	1.54	1.17
IN.	1.24	1.74	.80	.74	.62	.64	.65	4.99	6.74	1.88	1.78	1.31
AC-FT	8,790	12,310	5,640	5,270	4,410	4,550	4,620	35,410	47,810	13,310	12,620	9,280

CAL YR 1970 TOTAL 82,426 MEAN 226 MAX 1,170 MIN 74 CFSM 1.70 IN 23.05 AC-FT 163,500
WTR YR 1971 TOTAL 82,697 MEAN 227 MAX 1,680 MIN 72 CFSM 1.71 IN 23.13 AC-FT 164,000

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-01	1200	4.73	1,380	8-06	1930	3.95	835
6-06	1000	5.38	1,860				

NOTE.--No gage-height record Nov. 30 to Apr. 12.

15241600 Ninilchik River at Ninilchik

LOCATION.--Lat 60°02'56", long 151°39'48", in NE¼ sec.34, T.1 S., R.14 W., on downstream side of bridge at Ninilchik, and 0.9 mile upstream from mouth.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 30 ft (from topographic map). Prior to Oct. 1, 1965, at site 0.2 mile upstream at different datum.

AVERAGE DISCHARGE.--8 years, 103 cfs (10.68 inches per year, 74,620 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 624 cfs May 21 (gage height, 5.84 ft) extended above 290 cfs; maximum gage height observed, 8.22 ft May 4 (backwater from ice); minimum daily discharge, 40 cfs Oct. 26, 27, but may have been less during winter months.
Period of record: Maximum discharge observed, 650 cfs June 2, 1964 (gage height, 4.46 ft, site and datum then in use); maximum gage height observed, 8.69 ft Apr. 14, 1969 (backwater from ice, present site and datum); minimum discharge observed, 30 cfs July 20, 1966 (gage height, 3.64 ft, present site and datum).

REMARKS.--Records fair except those for winter periods, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	300	54	52	46	52	60	85	151	84	127	95
2	90	500	54	52	46	52	60	90	131	117	143	86
3	79	400	54	52	46	52	60	100	151	113	137	105
4	68	350	54	54	46	52	60	110	149	100	123	123
5	72	400	54	56	48	52	60	120	167	82	129	98
6	135	400	54	54	48	54	60	130	185	86	343	123
7	167	377	54	52	48	54	60	140	181	79	350	161
8	133	336	52	50	50	54	60	140	194	78	329	121
9	149	209	52	48	50	54	60	150	161	76	206	78
10	197	171	52	48	50	54	60	150	215	72	161	82
11	171	157	52	46	50	54	65	160	239	69	131	76
12	177	129	52	46	52	54	65	170	197	65	103	69
13	173	105	52	46	52	54	65	180	157	84	100	69
14	157	91	52	44	52	56	65	200	165	100	98	76
15	123	85	52	44	52	56	65	250	147	88	90	82
16	93	80	50	44	54	56	65	300	111	79	90	84
17	90	75	50	44	54	56	65	326	121	78	88	74
18	82	70	50	44	54	56	65	346	86	72	93	69
19	66	65	50	44	54	56	65	400	88	78	84	66
20	61	65	50	44	54	56	65	525	85	80	82	76
21	54	60	50	44	52	58	70	612	100	85	129	113
22	50	60	50	44	52	58	70	546	88	82	115	131
23	46	60	50	44	52	58	70	372	85	80	100	137
24	44	58	55	44	52	58	70	273	88	90	66	100
25	42	58	60	44	52	58	70	259	91	105	69	84
26	40	58	58	44	52	58	75	179	79	98	65	79
27	40	56	56	44	52	58	75	159	76	90	68	78
28	44	56	56	44	52	58	75	135	80	149	58	84
29	60	56	54	44	------	58	80	157	79	139	65	98
30	100	56	54	46	------	58	80	143	82	103	76	139
31	150	------	54	46	------	58	------	135	------	90	103	------
TOTAL	3,039	4,943	1,641	1,452	1,422	1,722	1,985	7,042	3,929	2,791	3,921	2,856
MEAN	98.0	165	52.9	46.8	50.8	55.5	66.2	227	131	90.0	126	95.2
MAX	197	500	60	56	54	58	80	612	239	149	350	161
MIN	40	56	50	44	46	52	60	85	76	65	58	66
CFSM	.75	1.26	.40	.36	.39	.42	.51	1.73	1.00	.69	.96	.73
IN.	.86	1.40	.47	.41	.40	.49	.56	2.00	1.12	.79	1.11	.81
AC-FT	6,030	9,800	3,250	2,880	2,820	3,420	3,940	13,970	7,790	5,540	7,780	5,660

CAL YR 1970 TOTAL 36,745 MEAN 101 MAX 500 MIN 40 CFSM .77 IN 10.43 AC-FT 72,880
WTR YR 1971 TOTAL 36,743 MEAN 101 MAX 612 MIN 40 CFSM .77 IN 10.43 AC-FT 72,880

NOTE.--No gage-height record Nov. 18 to Apr. 27.

15248000 Trail River near Lawing

LOCATION.--Lat 60°26'01", long 149°22'19", in SW¼ sec.13, T.4 N., R.1 W., near center of stream on downstream end of pier at bridge site on old Seward-Anchorage Highway, 0.2 mile upstream from Falls Creek, 0.2 mile downstream from Lower Trail Lake, 1.9 miles upstream from mouth, and 2.1 miles north of Lawing.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--May 1947 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 460 ft (from topographic map). Prior to Sept. 13, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 796 cfs (59.72 inches per year, 576,700 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,150 cfs July 14 (gage height, 9.30 ft); minimum daily, 53 cfs Jan. 28-30.
Period of record: Maximum discharge, 7,480 cfs Sept. 18, 1967 (gage height, 11.93 ft); minimum daily, 48 cfs Feb. 9, 10, 1949.

REMARKS.--Records good except those for the period of no gage-height record, which are poor.

REVISIONS(WATER YEARS).--WRD Alaska, 1970: 1966, 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	448	2,980	340	135	56	91	85	153	715	2,280	2,200	2,540
2	434	2,780	325	130	60	90	86	166	769	2,020	2,330	2,380
3	421	2,080	310	200	64	89	86	173	766	1,860	2,300	2,220
4	406	1,660	300	400	70	88	86	182	737	1,770	2,250	2,000
5	385	1,470	290	300	80	87	87	188	750	1,800	2,210	1,790
6	379	1,300	280	250	100	86	87	196	842	1,970	2,330	1,660
7	367	1,160	270	200	150	85	87	202	1,020	2,250	2,470	1,580
8	358	1,050	260	170	130	85	88	208	1,240	2,520	2,590	1,510
9	352	985	250	150	115	84	88	217	1,550	2,770	2,930	1,420
10	349	936	240	130	105	84	88	225	2,180	3,050	3,180	1,320
11	331	877	235	115	100	86	89	220	2,600	3,330	3,300	1,220
12	319	833	230	100	94	90	89	246	2,490	3,580	3,270	1,130
13	319	805	225	90	90	94	90	351	2,200	3,880	3,110	1,050
14	325	770	220	80	86	98	90	446	2,010	4,020	2,920	983
15	331	718	215	75	84	100	92	492	1,920	3,770	2,660	948
16	325	680	210	70	82	100	92	500	1,860	3,300	2,420	989
17	313	640	205	66	80	99	94	493	1,750	2,910	2,330	1,070
18	300	610	200	62	82	99	94	486	1,610	2,700	2,480	1,050
19	282	580	195	60	86	98	96	486	1,480	2,640	2,690	978
20	265	550	190	58	90	96	96	547	1,450	2,760	2,570	909
21	250	520	185	57	95	94	98	624	1,540	2,990	2,430	954
22	242	500	180	56	100	92	100	648	1,650	2,730	2,260	1,050
23	222	480	180	56	100	91	102	622	1,680	2,340	2,320	1,050
24	214	460	250	55	98	90	103	606	1,900	2,070	2,300	991
25	210	440	300	55	96	89	111	617	2,370	2,240	2,150	912
26	204	420	250	54	94	88	106	637	2,720	2,770	1,950	841
27	204	400	200	54	93	87	108	627	3,000	2,850	1,780	768
28	216	385	180	53	92	86	112	655	3,000	2,540	1,640	710
29	233	370	160	53	------	86	122	681	2,780	2,240	1,660	674
30	271	355	150	53	------	85	137	686	2,560	2,020	2,070	643
31	888	------	140	54	------	85	------	665	------	2,020	2,440	------
TOTAL	10,163	27,794	7,165	3,441	2,572	2,802	2,889	13,245	53,139	81,990	75,540	37,340
MEAN	328	926	231	111	91.9	90.4	96.3	427	1,771	2,645	2,437	1,245
MAX	888	2,980	340	400	150	100	137	686	3,000	4,020	3,300	2,540
MIN	204	355	140	53	56	84	85	153	715	1,770	1,640	643
CFSM	1.81	5.12	1.28	.61	.51	.50	.53	2.36	9.78	14.6	13.5	6.88
IN.	2.09	5.71	1.47	.71	.53	.58	.59	2.72	10.92	16.85	15.53	7.67
AC-FT	20,160	55,130	14,210	6,830	5,100	5,560	5,730	26,270	105,400	162,600	149,800	74,060

CAL YR 1970 TOTAL 284,358 MEAN 779 MAX 2,980 MIN 140 CFSM 4.30 IN 58.44 AC-FT 564,000
WTR YR 1971 TOTAL 318,080 MEAN 871 MAX 4,020 MIN 53 CFSM 4.81 IN 65.37 AC-FT 630,900

NOTE.--No gage-height record Nov. 16 to Apr. 22.

15258000 Kenai River at Cooper Landing

LOCATION.--Lat 60°29'34", long 149°48'28", near center of span on downstream side of bridge on Sterling Highway, 0.9 mile east (upstream) of Cooper Landing, Bean Creek, and Kenai Lake outlet.

DRAINAGE AREA.--634 sq mi.

PERIOD OF RECORD.--May 1947 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 430 ft (from topographic map). Prior to Apr. 13, 1950, at site 0.8 mile downstream at different datum. Apr. 14, 1950 to Apr. 6, 1964, at site about 50 ft upstream of present location at datum about 3.3 ft lower. Apr. 7, 1964 to Aug. 27, 1965, at site about 100 ft downstream at present datum.

AVERAGE DISCHARGE.--24 years, 2,731 cfs (58.50 inches per year, 1,979,000 acre-ft per year), adjusted to exclude diversion from Cooper Lake.

EXTREMES.--Current year: Maximum discharge, 10,600 cfs July 14 (gage height, 12.87 ft); minimum, 465 cfs Apr. 1, 2 (gage height, 5.15 ft).

Period of record: Maximum discharge, 21,500 cfs Sept. 1, 1967 (gage height, 16.25 ft, from floodmarks); no flow Mar. 27, 28, 1964 (caused by earthquake).

REMARKS.--Records good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake power plant began May 1961. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

COOPERATION.--Records of diversion furnished by Chugach Electric Association, Inc.

REVISIONS(WATER YEARS).--WRD Alaska, 1970: 1964(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,700	2,700	1,320	788	620	616	465	540	1,550	7,800	7,460	6,900
2	3,360	3,600	1,260	780	612	600	465	548	1,630	7,460	7,560	7,340
3	3,100	4,770	1,210	764	608	612	474	560	1,730	7,020	7,550	7,200
4	2,900	4,750	1,190	776	616	600	480	565	1,970	6,840	7,540	7,000
5	2,740	4,770	1,140	776	616	588	474	568	2,090	6,800	7,460	6,860
6	2,550	4,560	1,110	764	620	580	468	572	2,290	6,800	7,800	6,350
7	2,420	4,400	1,090	748	628	585	468	576	2,550	7,100	7,900	6,270
8	2,340	4,160	1,060	740	628	588	474	600	2,960	7,500	8,100	5,680
9	2,190	3,920	1,030	732	624	576	477	600	3,280	7,800	8,340	5,420
10	2,150	3,700	1,050	720	620	560	484	612	4,000	8,200	8,700	5,050
11	2,100	3,530	1,030	708	616	572	480	620	5,000	8,700	9,100	4,650
12	1,960	3,350	1,020	708	612	560	477	660	5,930	9,460	9,300	4,350
13	1,900	3,220	990	708	608	548	480	700	6,120	9,960	9,300	4,240
14	1,850	3,050	960	704	605	540	480	732	6,250	10,600	9,200	3,960
15	1,790	2,880	950	700	600	550	488	760	6,310	10,500	9,000	3,850
16	1,710	2,700	930	688	596	560	492	780	6,200	10,200	8,600	3,850
17	1,650	2,550	905	685	584	548	496	820	6,020	9,900	8,340	3,780
18	1,600	2,440	895	680	580	540	500	844	5,800	9,500	8,260	3,660
19	1,550	2,330	900	672	570	532	508	868	5,460	9,400	8,200	3,560
20	1,490	2,210	910	668	570	520	512	920	5,310	9,300	8,120	3,560
21	1,460	2,090	872	660	590	512	508	985	5,400	9,200	8,000	3,490
22	1,370	1,960	880	652	620	504	508	1,020	5,510	8,900	7,800	3,530
23	1,320	1,850	895	648	632	496	508	1,060	5,640	8,640	7,680	3,590
24	1,240	1,760	872	650	620	504	500	1,110	5,850	8,500	7,540	3,520
25	1,200	1,750	880	664	608	496	492	1,170	6,420	8,400	7,300	3,450
26	1,170	1,590	880	668	592	488	488	1,210	6,800	8,540	7,040	3,350
27	1,160	1,560	872	656	608	480	508	1,350	7,440	8,660	6,660	3,150
28	1,170	1,470	860	648	620	477	520	1,390	8,200	8,480	6,420	3,020
29	1,170	1,410	840	636	------	474	524	1,440	8,320	8,000	6,080	2,960
30	1,350	1,350	820	632	------	471	528	1,480	8,300	7,840	6,310	2,900
31	2,000	------	800	624	------	468	------	1,510	------	7,620	6,600	------
TOTAL	59,660	86,380	30,421	21,647	17,023	16,745	14,726	27,170	150,330	263,620	243,260	136,490
MEAN	1,925	2,879	981	698	608	540	491	876	5,011	8,504	7,847	4,550
MAX	3,700	4,770	1,320	788	632	616	528	1,510	8,320	10,600	9,300	7,340
MIN	1,160	1,350	800	624	570	468	465	540	1,550	6,800	6,080	2,900
CFSM	3.04	4.54	1.55	1.10	.96	.85	.77	1.38	7.90	13.4	12.4	7.18
IN.	3.50	5.07	1.78	1.27	1.00	.98	.86	1.59	8.82	15.47	14.27	8.01
AC-FT	118,300	171,300	60,340	42,940	33,770	33,210	29,210	53,890	298,200	522,900	482,500	270,700

CAL YR 1970 TOTAL 1,173,726 MEAN 3,216 MAX 12,100 MIN 800 CFSM 5.07 IN 68.87 AC-FT 2,328,000
WTR YR 1971 TOTAL 1,067,472 MEAN 2,925 MAX 10,600 MIN 465 CFSM 4.61 IN 62.63 AC-FT 2,117,000

Adjusted for diversion from Cooper Creek

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
(1971 WY only)												
MEAN	1,793	2,781	880	542	449	441	353	760	4,931	8,348	7,656	4,351
CFSM	2.83	4.38	1.39	0.85	.71	.70	.56	1.20	7.78	13.2	12.1	6.86
IN	3.26	4.89	1.60	0.99	.74	.80	.62	1.38	8.68	15.18	13.92	7.66
AC-FT	110,200	165,200	54,110	33,360	24,920	27,140	20,980	46,710	293,400	513,300	470,800	259,000

CAL YR 1970 MEAN 3,113 CFSM 4.91 IN 66.66 AC-FT 2,254,000
WTR YR 1971 MEAN 2,789 CFSM 4.40 IN 59.72 AC-FT 2,019,000

15266300 Kenai River at Soldotna

LOCATION.--Lat 60°28'39", long 151°04'46", near center of span on downstream side of bridge on Sterling Highway, 1.0 mile southwest of Soldotna.

DRAINAGE AREA.--2,010 sq mi.

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Nonrecording gage. Datum of gage is 35.34 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 5,775 cfs (39.02 inches per year, 4,184,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 24,200 cfs Sept. 12 (gage height, 11.60 ft); maximum gage height, 11.96 ft Dec. 6 (backwater from ice); minimum daily discharge, 1,100 cfs Mar. 11 to Apr. 15.
Period of record: Maximum discharge, 30,000 cfs Oct. 15, 1969 (gage height, 12.20 ft); maximum gage height, 22.62 ft Jan. 18, 1969 (backwater from ice); minimum daily discharge, 770 cfs Apr. 1-4, 1966.

REMARKS.--Records fair except those for the period Dec. 1 to May 12, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS(WATER YEARS).--WRD Alaska, 1970: 1968 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,140	3,400	2,600	2,400	1,200	1,300	1,100	1,200	2,620	12,200	15,600	14,500
2	7,690	4,350	2,500	2,400	1,200	1,300	1,100	1,200	2,520	12,400	15,400	14,500
3	7,180	4,400	2,500	2,400	1,200	1,300	1,100	1,300	2,520	12,200	15,400	14,600
4	6,670	4,680	2,400	2,400	1,200	1,300	1,100	1,300	2,820	12,000	15,400	14,700
5	6,130	5,100	2,400	2,400	1,200	1,300	1,100	1,400	3,120	11,600	16,200	14,700
6	5,950	5,290	2,300	2,300	1,200	1,200	1,100	1,400	3,220	12,100	17,600	14,800
7	5,920	5,500	2,300	2,300	1,200	1,200	1,100	1,500	3,650	12,800	18,000	15,000
8	5,380	5,710	2,200	2,200	1,200	1,200	1,100	1,500	4,050	13,200	18,700	15,000
9	5,120	5,650	2,200	2,200	1,200	1,200	1,100	1,600	4,480	13,400	20,400	15,200
10	4,950	5,590	2,100	2,100	1,200	1,200	1,100	1,600	5,230	13,600	21,200	16,800
11	4,680	5,530	2,100	2,000	1,300	1,100	1,100	1,700	5,530	13,800	21,500	19,200
12	4,450	5,500	2,000	1,900	1,300	1,100	1,100	1,800	5,560	14,000	22,000	22,600
13	4,220	5,440	2,000	1,800	1,300	1,100	1,100	1,890	5,680	16,300	22,000	23,900
14	4,080	5,380	2,000	1,800	1,300	1,100	1,100	1,960	6,220	17,300	23,000	20,900
15	3,880	5,230	1,900	1,700	1,300	1,100	1,100	2,040	6,730	17,300	23,000	17,600
16	3,800	5,020	1,900	1,600	1,300	1,100	1,200	2,120	7,630	17,000	21,000	15,200
17	3,480	4,850	1,900	1,600	1,300	1,100	1,200	2,190	7,840	17,300	20,400	13,600
18	3,220	4,650	1,900	1,500	1,300	1,100	1,200	2,190	7,780	17,300	20,100	11,900
19	3,020	4,500	1,800	1,500	1,300	1,100	1,200	2,190	7,780	17,300	19,200	10,700
20	2,900	4,280	1,800	1,400	1,300	1,100	1,200	2,260	7,930	17,300	18,400	10,000
21	2,760	4,100	1,800	1,400	1,200	1,100	1,200	2,260	8,080	17,300	17,700	9,460
22	2,660	3,850	1,800	1,400	1,200	1,100	1,200	2,260	8,140	17,300	17,000	9,020
23	2,560	3,600	1,800	1,300	1,200	1,100	1,200	2,300	8,230	17,000	16,800	8,500
24	2,400	3,450	2,720	1,300	1,200	1,100	1,200	2,320	9,140	16,800	16,500	8,200
25	2,340	3,280	2,720	1,300	1,300	1,100	1,200	2,340	10,100	16,800	16,200	7,900
26	2,280	3,180	2,720	1,300	1,300	1,100	1,200	2,400	10,400	16,500	15,600	7,450
27	2,240	3,060	2,700	1,300	1,300	1,100	1,200	2,460	11,000	16,400	15,200	7,150
28	2,220	2,900	2,600	1,300	1,300	1,100	1,200	2,480	11,300	16,200	14,500	6,850
29	2,260	2,800	2,600	1,300	------	1,100	1,200	2,520	11,500	15,900	14,200	6,670
30	2,200	2,700	2,500	1,300	------	1,100	1,200	2,520	12,000	15,900	14,200	6,490
31	2,620	------	2,500	1,300	------	1,100	------	2,620	------	15,900	14,200	------
TOTAL	127,400	132,970	69,260	54,400	35,000	35,600	34,500	60,820	202,800	472,400	556,600	393,090
MEAN	4,110	4,432	2,234	1,755	1,250	1,148	1,150	1,962	6,760	15,240	17,950	13,100
MAX	8,140	5,710	2,720	2,400	1,300	1,300	1,200	2,620	12,000	17,300	23,000	23,900
MIN	2,200	2,700	1,800	1,300	1,200	1,100	1,100	1,200	2,520	11,600	14,200	6,490
CFSM	2.04	2.21	1.11	.87	.62	.57	.57	.98	3.36	7.58	8.93	6.52
IN.	2.36	2.46	1.28	1.01	.65	.66	.64	1.13	3.75	8.74	10.30	7.28
AC-FT	252,700	263,700	137,400	107,900	69,420	70,610	68,430	120,600	402,300	937,000	1,104M	779,700

CAL YR 1970 TOTAL 1,954,740 MEAN 5,355 MAX 15,200 MIN 1,410 CFSM 2.66 IN 36.18 AC-FT 3,877,000
WTR YR 1971 TOTAL 2,174,840 MEAN 5,958 MAX 23,900 MIN 1,100 CFSM 2.96 IN 40.25 AC-FT 4,314,000

NOTE.--No gage-height record Jan. 10 to Apr. 29.

M.--Expressed in thousands.

15266500 Beaver Creek near Kenai

LOCATION.--Lat 60°33'50", long 151°07'03", in SE¼ sec.36, T.6 N., R.11 W., on right bank 25 ft upstream from culvert on Kenai-Soldotna Road, 2 miles upstream from mouth, and 4.5 miles east of Kenai.

DRAINAGE AREA.--51 sq mi, approximately.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 48 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 226 cfs May 4 (gage height, 8.36 ft); minimum daily, 10 cfs Feb. 16 to Apr. 17.
Period of record: Maximum discharge, 226 cfs May 4, 1971 (gage height, 8.36 ft); minimum, 8.2 cfs Oct. 23, 1969, temporary ice storage upstream.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	34	18	15	11	10	10	60	35	26	32	39
2	25	33	18	15	11	10	10	100	34	31	34	42
3	26	32	18	15	11	10	10	150	33	29	33	40
4	22	40	18	16	11	10	10	197	32	26	29	38
5	20	45	18	16	11	10	10	187	31	24	29	39
6	29	42	18	16	11	10	10	160	30	23	57	40
7	36	37	17	15	11	10	10	154	29	23	74	37
8	34	35	17	15	11	10	10	149	28	22	77	35
9	34	33	17	15	11	10	10	134	28	22	80	33
10	37	31	17	14	11	10	10	113	26	21	71	31
11	35	29	17	14	11	10	10	90	26	21	58	30
12	34	27	17	14	11	10	10	77	24	20	46	30
13	38	25	17	14	11	10	10	69	24	25	52	28
14	38	24	17	14	11	10	10	64	24	32	70	28
15	35	23	17	13	11	10	10	59	25	28	65	27
16	33	22	16	13	10	10	10	56	25	26	57	26
17	30	22	16	13	10	10	10	52	25	24	48	26
18	24	21	16	13	10	10	11	49	26	23	43	26
19	24	21	16	13	10	10	11	48	26	24	40	26
20	22	21	16	13	10	10	11	46	26	25	39	26
21	21	20	16	13	10	10	12	45	26	24	38	35
22	20	20	16	12	10	10	12	44	27	24	36	39
23	20	20	17	12	10	10	12	43	27	25	35	36
24	20	20	19	12	10	10	13	42	26	24	33	34
25	19	19	20	12	10	10	13	40	24	26	32	31
26	19	19	19	12	10	10	14	39	24	28	31	30
27	18	19	18	12	10	10	15	38	23	26	30	28
28	18	19	17	12	10	10	16	37	23	28	28	28
29	19	19	17	12	------	10	20	37	24	26	28	30
30	22	18	16	12	------	10	30	36	25	26	29	33
31	35	------	16	12	------	10	------	35	------	26	38	------
TOTAL	827	790	532	419	295	310	360	2,450	806	778	1,392	971
MEAN	26.7	26.3	17.2	13.5	10.5	10.0	12.0	79.0	26.9	25.1	44.9	32.4
MAX	38	45	20	16	11	10	30	197	35	32	80	42
MIN	18	18	16	12	10	10	10	35	23	20	28	26
CFSM	.52	.52	.34	.26	.21	.20	.24	1.55	.53	.49	.88	.64
IN.	.60	.58	.39	.31	.22	.23	.26	1.79	.59	.57	1.02	.71
AC-FT	1,640	1,570	1,060	831	585	615	714	4,860	1,600	1,540	2,760	1,930

CAL YR 1970 TOTAL 8,389 MEAN 23.0 MAX 51 MIN 13 CFSM .45 IN 6.12 AC-FT 16,640
WTR YR 1971 TOTAL 9,930 MEAN 27.2 MAX 197 MIN 10 CFSM .53 IN 7.24 AC-FT 19,700

NOTE.--No gage-height record Nov. 16 to May 3.

15267900 Resurrection Creek near Hope

LOCATION.--Lat 60°53'40", long 149°38'13", on right bank, 2.1 miles upstream from mouth on south shore of Turnagain Arm, and 1.8 miles south of Hope.

DRAINAGE AREA.--149 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 2,300 cfs Aug. 9 (gage height, 8.26 ft); minimum daily, 70 cfs Apr. 1-17.
Period of record: Maximum discharge, 2,700 cfs Oct. 6, 1969 (gage height, 8.40 ft); minimum daily, 60 cfs Mar. 1-25, 1969.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska, 1969: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	677	135	120	85	76	70	120	220	1,080	767	498
2	192	435	135	120	85	76	70	130	201	952	719	496
3	183	357	135	130	85	76	70	130	218	914	634	473
4	173	356	135	150	90	76	70	140	277	899	590	471
5	176	328	135	140	90	76	70	140	352	984	601	556
6	192	306	130	135	95	76	70	150	464	1,040	956	537
7	187	285	130	130	100	76	70	150	507	1,110	953	533
8	181	269	130	125	100	76	70	160	599	1,140	1,370	514
9	183	259	130	120	95	76	70	170	796	1,130	1,730	491
10	178	245	130	120	90	76	70	180	744	1,190	1,530	475
11	174	235	130	115	90	74	70	200	649	1,240	1,320	464
12	174	223	130	115	85	74	70	210	555	1,260	1,090	449
13	194	209	125	115	85	74	70	202	541	1,660	987	441
14	179	195	125	110	82	74	70	158	581	1,370	909	433
15	175	180	125	110	82	74	70	145	649	1,150	785	428
16	176	170	125	110	82	74	70	142	587	1,020	726	424
17	179	165	125	100	80	74	70	139	514	992	727	396
18	171	160	125	100	80	74	75	146	463	941	693	380
19	170	155	125	100	80	74	75	186	452	888	646	382
20	170	150	125	100	80	74	75	204	475	915	604	366
21	165	150	125	95	80	72	80	183	512	782	567	438
22	165	145	125	95	78	72	80	172	490	652	535	408
23	165	145	127	95	78	72	80	177	515	596	510	387
24	160	145	150	95	78	72	85	197	852	624	493	371
25	160	140	200	95	78	72	85	235	1,420	802	512	356
26	160	140	180	90	78	72	90	206	1,790	768	489	347
27	160	140	160	90	78	72	100	201	1,800	775	454	335
28	170	140	150	90	78	72	110	218	1,610	732	438	327
29	178	135	140	90	------	72	110	216	1,380	642	435	351
30	250	135	130	90	------	72	120	211	1,250	615	446	341
31	374	------	125	90	------	72	------	211	------	700	504	------
TOTAL	5,706	6,774	4,197	3,380	2,367	2,292	2,355	5,429	21,463	29,563	23,720	12,868
MEAN	184	226	135	109	84.5	73.9	78.5	175	715	954	765	429
MAX	374	677	200	150	100	76	120	235	1,800	1,660	1,730	556
MIN	160	135	125	90	78	72	70	120	201	596	435	327
CFSM	1.23	1.52	.91	.73	.57	.50	.53	1.17	4.80	6.40	5.13	2.88
IN.	1.42	1.69	1.05	.84	.59	.57	.59	1.36	5.36	7.38	5.92	3.21
AC-FT	11,320	13,440	8,320	6,700	4,690	4,550	4,670	10,770	42,570	58,640	47,050	25,520

CAL YR 1970 TOTAL 106,513 MEAN 292 MAX 1,040 MIN 65 CFSM 1.96 IN 26.59 AC-FT 211,300
WTR YR 1971 TOTAL 120,114 MEAN 329 MAX 1,800 MIN 70 CFSM 2.21 IN 29.99 AC-FT 238,200

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	2130	7.60	1,470	07-25	1330	7.15	903
06-09	2030	7.15	1,020	08-01	0630	7.04	808
06-27	0400	8.17	2,140	08-09	0230	8.26	2,300
07-13	1230	8.01	1,900				

NOTE.--No gage-height record Nov. 15 to May 12.

15272550 Glacier Creek at Girdwood

LOCATION.--Lat 60°56'29", long 149°09'44", in SE¼ sec.19, T.10 N., R.2 E., on right bank downstream wingwall of railroad bridge, 0.2 mile upstream from mouth, and 0.2 mile southeast of Girdwood.

DRAINAGE AREA.--62.0 sq mi.

PERIOD OF RECORD.--August 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.99 ft above mean sea level (levels by Corps of Engineers, post-earthquake datum of October 1964).

AVERAGE DISCHARGE.--6 years, 289 cfs (63.29 inches per year, 209,400 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,510 cfs Aug. 8 (gage height, 6.50 ft, from outside floodmark); minimum daily, 18 cfs Mar. 13-17 and Apr. 1.
Period of record: Maximum discharge, 7,710 cfs Sept. 18, 1967 (gage height, 7.90 ft, from floodmarks), from rating extended above 1,500 cfs; maximum gage height, 8.34 ft Oct. 6, 1969, from outside floodmark; minimum daily, 16 cfs Mar. 17, 18, 1969.

REMARKS.--Records fair except above 500 cfs, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	1,200	56	50	26	32	18	81	694	694	1,000	666
2	200	600	54	47	26	32	25	93	425	624	900	562
3	190	405	54	47	27	30	27	152	415	617	850	526
4	180	496	52	52	27	28	20	113	370	694	806	448
5	170	410	52	60	27	26	20	99	568	876	855	659
6	160	390	52	53	27	24	20	191	729	1,030	1,010	520
7	150	345	54	52	30	22	20	146	757	1,060	986	415
8	140	330	60	50	40	22	21	111	792	1,150	2,140	370
9	135	321	70	46	115	20	24	105	1,290	1,240	1,920	370
10	130	277	90	42	83	20	22	103	1,340	1,330	1,360	365
11	130	265	101	40	64	20	21	188	1,030	1,150	1,220	294
12	135	277	95	38	57	20	32	209	855	1,060	1,020	294
13	130	281	93	36	50	18	42	520	820	1,470	962	294
14	125	249	89	34	40	18	81	290	792	1,400	883	245
15	118	217	89	32	38	18	49	202	841	1,020	806	209
16	110	177	89	32	36	18	64	170	750	764	694	326
17	105	180	75	30	32	18	52	174	715	750	848	298
18	100	170	70	30	35	22	45	217	680	687	883	241
19	95	132	68	30	33	21	48	294	715	820	778	221
20	90	149	70	28	30	22	42	508	855	930	708	237
21	90	135	64	28	40	23	39	430	813	673	736	300
22	90	110	61	28	57	22	43	290	785	454	806	285
23	81	90	57	28	49	23	50	298	930	410	729	265
24	81	80	150	28	49	23	50	245	1,030	550	659	229
25	81	70	120	28	49	22	85	281	1,140	1,070	592	217
26	101	65	90	26	47	22	87	241	1,250	869	544	210
27	105	60	80	26	41	22	105	249	1,150	869	556	200
28	103	58	75	26	35	22	107	425	898	813	600	190
29	99	58	70	26	------	21	93	365	848	673	659	210
30	645	56	60	26	------	22	85	395	834	680	659	200
31	2,500	------	55	26	------	19	------	442	------	954	736	------
TOTAL	6,779	7,653	2,315	1,125	1,210	692	1,437	7,627	25,111	27,381	27,905	9,866
MEAN	219	255	74.7	36.3	43.2	22.3	47.9	246	837	883	900	329
MAX	2,500	1,200	150	60	115	32	107	520	1,340	1,470	2,140	666
MIN	81	56	52	26	26	18	18	81	370	410	544	190
CFSM	3.53	4.11	1.20	.59	.70	.36	.77	3.97	13.5	14.2	14.5	5.31
IN.	4.07	4.59	1.39	.68	.73	.42	.86	4.58	15.07	16.43	16.74	5.92
AC-FT	13,450	15,180	4,590	2,230	2,400	1,370	2,850	15,130	49,810	54,310	55,350	19,570

CAL YR 1970 TOTAL 105,078 MEAN 288 MAX 2,500 MIN 50 CFSM 4.65 IN 63.05 AC-FT 208,400
WTR YR 1971 TOTAL 119,101 MEAN 326 MAX 2,500 MIN 18 CFSM 5.26 IN 71.46 AC-FT 236,200

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	1600	6.47	4,010	8-08	1700	6.50	4,510
7-13	1600	4.85	1,640				

15273900 South Fork Campbell Creek at canyon mouth near Anchorage

LOCATION.--Lat 61°08'52", long 149°43'12", in NE¼ sec.12, T.12 N., R.3 W., on right bank, 1.9 miles upstream from ford on Campbell Airstrip road crossing, and 7.5 miles southeast of Anchorage.

DRAINAGE AREA.--25.2 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 38.9 cfs (20.97 inches per year, 28,180 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 300 cfs Aug. 8 (gage height, 3.77 ft); maximum gage height, 8.0 ft, date unknown (backwater from ice); minimum daily discharge, 9.0 cfs Apr. 1-10.
Period of record: Maximum discharge, 300 cfs Aug. 8, 1971 (gage height, 3.77 ft); minimum daily discharge, 8 cfs Feb. 5, 1969.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	65	13	15	13	11	9.0	10	22	92	113	61
2	39	50	13	14	13	11	9.0	10	20	77	122	59
3	37	40	14	14	13	10	9.0	10	23	73	101	55
4	41	45	15	14	13	10	9.0	10	31	70	87	54
5	50	48	16	14	14	10	9.0	10	40	84	83	75
6	41	45	17	14	14	10	9.0	11	58	93	141	68
7	39	43	17	13	15	10	9.0	11	93	101	142	60
8	38	41	18	13	15	10	9.0	11	110	99	199	57
9	38	39	19	13	15	10	9.0	11	129	101	249	55
10	35	38	20	13	14	10	9.0	11	144	111	188	52
11	35	36	21	13	14	9.5	9.5	13	125	113	166	51
12	38	34	22	13	13	9.5	9.5	15	89	123	145	50
13	43	32	23	13	13	9.5	9.5	18	79	173	143	54
14	37	31	23	13	13	9.5	9.5	15	91	153	142	55
15	36	29	23	12	13	9.5	9.5	15	131	116	122	50
16	34	27	22	12	13	9.5	9.5	16	105	98	109	49
17	33	26	22	12	13	9.5	9.5	15	73	95	102	48
18	31	26	21	12	13	9.5	9.5	12	60	90	96	46
19	30	25	21	12	13	9.5	9.5	18	61	89	92	48
20	29	25	20	12	13	9.5	9.5	21	73	93	85	46
21	28	24	20	12	12	9.5	10	18	100	80	80	62
22	26	22	19	12	12	9.5	10	17	93	62	74	58
23	24	20	21	12	12	9.5	10	16	101	58	70	53
24	22	19	23	12	12	9.5	10	21	139	64	67	50
25	21	18	20	12	12	9.5	10	25	144	86	71	47
26	21	16	18	12	11	9.5	11	21	151	89	63	46
27	23	15	17	12	11	9.5	11	18	153	119	59	45
28	27	14	16	12	11	9.5	11	19	124	140	58	45
29	31	13	16	12	------	9.5	11	22	108	108	56	46
30	40	13	15	12	------	9.5	10	22	119	93	58	47
31	60	------	15	13	------	9.5	------	22	------	116	61	------
TOTAL	1,065	919	580	394	363	301.5	289.0	484	2,789	3,059	3,344	1,592
MEAN	34.4	30.6	18.7	12.7	13.0	9.73	9.63	15.6	93.0	98.7	108	53.1
MAX	60	65	23	15	15	11	11	25	153	173	249	75
MIN	21	13	13	12	11	9.5	9.0	10	20	58	56	45
CFSM	1.37	1.21	.74	.50	.52	.39	.38	.62	3.69	3.92	4.29	2.11
IN.	1.57	1.36	.86	.58	.54	.45	.43	.71	4.12	4.52	4.94	2.35
AC-FT	2,110	1,820	1,150	782	720	598	573	960	5,530	6,070	6,630	3,160

CAL YR 1970 TOTAL 14,052.5 MEAN 38.5 MAX 194 MIN 9.5 CFSM 1.53 IN 20.74 AC-FT 27,870
WTR YR 1971 TOTAL 15,179.5 MEAN 41.6 MAX 249 MIN 9.0 CFSM 1.65 IN 22.41 AC-FT 30,110

NOTE.--No gage-height record Oct. 25 to Apr. 19.

15274000 South Fork Campbell Creek near Anchorage

LOCATION.--Lat 61°09'57", long 149°46'15", in NW¼ sec.2 (revision), T.12 N., R.3 W., on right bank, 0.2 mile downstream from ford on road leading to Campbell Airstrip, 2.0 miles upstream from confluence with North Fork Campbell Creek, and 5.5 miles southeast of Anchorage Post Office.

DRAINAGE AREA --30.4 sq mi.

PERIOD OF RECORD.--July 1947 to September 1971 (converted to crest-stage partial-record station).

GAGE.--Water-stage recorder. Altitude of gage is 260 ft (from topographic map). Prior to Aug. 20, 1952, at site 0.2 mile upstream at different datum. Aug. 20, 1952 to July 15, 1958, at site 70 ft downstream from previous site at different datum.

AVERAGE DISCHARGE.--24 years, 38.3 cfs (17.11 inches per year, 27,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 275 cfs Aug. 8 (gage height, 2.70 ft, from graph, based on record of upstream station); minimum daily, 3.0 cfs Apr. 1-10.

Period of record: Maximum discharge, 891 cfs June 21, 1949 (gage height, 3.30 ft, site and datum then in use), from rating curve extended above 110 cfs. Maximum gage height observed, 6.40 ft Nov. 10, 1965 (backwater from ice); no flow part of Oct. 12, 1958, caused by temporary storage behind snowslide upstream.

REMARKS.--Records good except for the period Oct. 16 to June 9, which are poor.

REVISIONS.--WSP 1936: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	55	8.0	8.0	5.5	4.5	3.0	4.5	22	91	88	51
2	36	41	8.0	8.0	5.5	4.5	3.0	5.0	20	78	97	50
3	33	33	8.5	8.0	6.0	4.0	3.0	5.0	21	73	86	48
4	36	37	9.0	7.5	6.0	4.0	3.0	5.0	26	71	73	46
5	44	41	9.5	7.5	6.0	4.0	3.0	5.5	38	84	69	60
6	35	38	10	7.5	6.5	4.0	3.0	5.5	55	91	113	57
7	33	36	10	7.0	7.0	4.0	3.0	6.0	80	97	116	51
8	32	33	11	7.0	7.0	4.0	3.0	6.0	100	97	160	48
9	32	31	12	7.0	7.0	4.0	3.0	6.5	110	97	220	46
10	29	30	13	7.0	7.0	4.0	3.0	7.0	121	104	157	44
11	29	28	14	6.5	6.5	4.0	3.5	8.0	111	109	137	42
12	31	26	14	6.5	6.5	4.0	3.5	10	91	111	109	41
13	39	25	15	6.5	6.0	4.0	3.5	12	82	160	106	44
14	31	24	15	6.0	6.0	4.0	3.5	11	91	137	104	46
15	29	22	15	6.0	6.0	4.0	3.5	10	116	99	91	41
16	28	21	14	6.0	6.0	3.5	3.5	11	99	87	80	41
17	26	20	14	5.5	5.5	3.5	3.5	9.0	78	83	76	40
18	25	19	13	5.5	5.5	3.5	3.5	8.0	67	78	71	37
19	24	19	13	5.5	5.5	3.5	3.5	11	69	78	69	40
20	23	18	13	5.0	5.5	3.5	3.5	14	76	80	65	37
21	22	17	13	5.0	5.0	3.5	4.0	13	95	71	62	50
22	21	15	12	5.0	5.0	3.5	4.0	12	91	58	58	48
23	20	14	14	5.0	5.0	3.5	4.0	11	95	54	57	44
24	18	13	15	5.0	5.0	3.5	4.0	14	118	57	56	41
25	17	12	14	5.0	5.0	3.5	4.0	17	123	74	57	40
26	17	11	12	5.0	4.5	3.5	5.0	16	129	76	54	38
27	18	10	11	5.0	4.5	3.5	6.0	14	131	99	50	37
28	20	9.0	10	5.0	4.5	3.5	5.5	15	113	116	48	36
29	25	8.5	9.5	5.0	------	3.5	5.0	17	101	91	46	38
30	33	8.0	9.0	5.0	------	3.5	4.5	18	109	76	48	38
31	48	------	8.5	5.5	------	3.5	------	19	------	95	51	------
TOTAL	889	714.5	367.0	189.0	161.0	117.0	111.0	326.0	2,578	2,772	2,674	1,320
MEAN	28.7	23.8	11.8	6.10	5.75	3.77	3.70	10.5	85.9	89.4	86.3	44.0
MAX	48	55	15	8.0	7.0	4.5	6.0	19	131	160	220	60
MIN	17	8.0	8.0	5.0	4.5	3.5	3.0	4.5	20	54	46	36
CFSM	.94	.78	.39	.20	.19	.12	.12	.35	2.83	2.94	2.84	1.45
IN.	1.09	.87	.45	.23	.20	.14	.14	.40	3.15	3.39	3.27	1.62
AC-FT	1,760	1,420	728	375	319	232	220	647	5,110	5,500	5,300	2,620

CAL YR 1970 TOTAL 11,815.1 MEAN 32.4 MAX 155 MIN 2.8 CFSM 1.07 IN 14.46 AC-FT 23,440
WTR YR 1971 TOTAL 12,218.5 MEAN 33.5 MAX 220 MIN 3.0 CFSM 1.10 IN 14.95 AC-FT 24,240

NOTE.--No gage-height record Oct. 23 to June 8.

15274600 Campbell Creek near Spenard

LOCATION.--Lat 61°08'17", long 149°55'20", on line between sec.11 and 14, T.12 N., R.4 W., on upstream right bank wingwall of bridge at Dimond Boulevard crossing, 2.0 miles upstream from mouth, and 4.3 miles south of Spenard.

DRAINAGE AREA.--69.7 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.04 ft above mean sea level.

AVERAGE DISCHARGE.--5 years, 57.0 cfs (11.1 inches per year, 41,300 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 421 cfs Aug. 9 (gage height, 3.63 ft); maximum observed gage height, 3.70 ft Feb. 5 (backwater from ice); minimum daily discharge, 5.5 cfs Mar. 2-10.
Period of record: Maximum discharge, 421 cfs Aug. 9, 1971 (gage height, 3.63 ft); maximum observed gage height, 4.90 ft Mar. 3, 1970 (backwater from ice); minimum daily discharge, 2.2 cfs Feb. 5, 1969.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	130	43	18	6.5	6.0	7.0	11	33	135	194	113
2	52	100	42	18	6.5	5.5	7.0	12	31	117	200	110
3	50	90	41	19	6.0	5.5	7.0	13	28	108	183	105
4	58	80	39	20	6.0	5.5	7.0	14	43	99	161	100
5	75	90	37	20	6.0	5.5	7.0	16	50	110	148	130
6	62	100	35	19	6.5	5.5	7.0	18	74	123	207	120
7	56	90	34	18	7.0	5.5	7.0	19	101	134	246	110
8	52	87	33	17	7.5	5.5	7.0	20	126	135	270	105
9	50	81	33	16	7.5	5.5	7.0	22	130	136	406	100
10	48	70	34	16	7.5	5.5	7.0	24	169	146	347	96
11	50	66	35	15	7.5	6.0	7.5	25	161	154	287	92
12	60	62	35	14	7.0	6.0	7.5	26	131	158	241	90
13	67	60	34	14	7.0	6.0	7.5	25	113	215	225	92
14	64	58	34	13	7.0	6.0	7.5	24	120	244	241	100
15	58	56	33	12	7.0	6.0	7.5	23	159	175	207	92
16	54	54	33	12	7.0	6.0	8.0	23	163	155	186	86
17	48	52	32	11	7.0	6.0	8.0	25	129	146	176	82
18	46	50	32	11	7.0	6.0	8.0	28	105	137	173	80
19	45	49	31	10	7.0	6.0	8.0	35	104	137	165	85
20	44	48	31	10	7.0	6.0	8.0	40	105	144	159	82
21	43	47	33	10	6.5	6.0	9.0	36	136	138	150	110
22	42	46	35	9.0	6.5	6.0	9.0	31	137	116	142	105
23	42	45	40	9.0	6.5	6.0	10	28	137	104	132	100
24	41	45	35	9.0	6.5	6.0	10	35	172	105	129	95
25	40	45	32	8.0	6.5	6.0	10	48	184	128	132	90
26	42	44	28	8.0	6.5	6.0	10	43	194	142	128	87
27	48	44	24	8.0	6.0	6.5	11	36	211	166	122	84
28	56	44	22	7.5	6.0	6.5	11	32	173	256	116	82
29	68	43	20	7.5	------	6.5	10	36	146	208	113	80
30	73	43	19	7.0	------	6.5	10	36	151	173	112	84
31	105	------	18	7.0	------	7.0	------	33	------	189	118	------
TOTAL	1,689	1,919	1,007	393.0	188.5	184.5	247.5	837	3,716	4,633	5,816	2,887
MEAN	54.5	64.0	32.5	12.7	6.73	5.95	8.25	27.0	124	149	188	96.2
MAX	105	130	43	20	7.5	7.0	11	48	211	256	406	130
MIN	40	43	18	7.0	6.0	5.5	7.0	11	28	99	112	80
CFSM	.78	.92	.47	.18	.10	.09	.12	.39	1.78	2.14	2.70	1.38
IN.	.90	1.02	.54	.21	.10	.10	.13	.45	1.98	2.47	3.10	1.54
AC-FT	3,350	3,810	2,000	780	374	366	491	1,660	7,370	9,190	11,540	5,730

CAL YR 1970 TOTAL 20,651.0 MEAN 56.6 MAX 224 MIN 16 CFSM .81 IN 11.02 AC-FT 40,960
WTR YR 1971 TOTAL 23,517.5 MEAN 64.4 MAX 406 MIN 5.5 CFSM .92 IN 12.55 AC-FT 46,650

NOTE.--No gage-height record Nov. 14 to May 17 and Sept. 3-30.

15274700 Sand Lake near Spenard

LOCATION.--Lat 61°09'03", long 149°58'25", in NW¼ sec.10, T.12 N., R.4 W., at west end of lake, 4.0 miles southwest of Spenard Post Office.

PERIOD OF RECORD.--May 1967 to current year.

GAGE.--Nonrecording gage. Datum of gage is at mean sea level. Prior to Oct. 1, 1968, at datum 85.12 ft higher.

EXTREMES.--Current year: Maximum gage height observed, 84.86 ft May 24-30; minimum, 83.92 ft Oct. 1.
Period of record: Maximum gage height, 87.02 ft, present datum, June 1, 2, 1968; minimum, 83.92 ft Sept. 28 to Oct. 1, 1970.

REMARKS.--Lake level fluctuations are due to changes in ground-water level rather than surface inflow or outflow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83.92	-			-		-	-	84.84	84.62	84.61	84.68
2	83.95	-			84.25		-	-	84.82	84.60	84.62	84.70
3	83.95	-			-		-	-	84.82	84.59	84.62	84.70
4	83.94	-			-		-	-	84.81	84.59	84.61	84.69
5	83.93	-			-		-	84.78	84.80	84.58	84.60	84.70
6	83.96	-			-		-	84.78	84.79	84.57	84.64	84.72
7	83.96	-			-		-	84.80	84.79	84.56	84.68	84.74
8	83.96	-			-		-	84.80	84.78	84.56	84.70	84.74
9	83.96	-			-		-	84.80	84.77	84.55	84.74	84.73
10	83.96	-			-		-	84.80	84.77	84.54	84.78	84.72
11	83.96	-			-		-	84.80	84.76	84.52	84.78	84.71
12	83.96	-			-		-	84.82	84.75	84.50	84.76	84.71
13	83.97	-			-		-	84.84	84.76	84.50	84.76	84.70
14	83.96	-			-		-	84.83	84.75	84.50	84.78	84.74
15	83.96	-			-		-	84.82	84.75	84.49	84.77	84.73
16	83.96	-			-		-	84.81	84.74	84.48	84.76	84.72
17	83.95	-			-		-	84.80	84.72	84.46	84.75	84.72
18	83.94	-			-		-	84.80	84.72	84.44	84.74	84.71
19	83.94	-			-		-	84.82	84.72	84.45	84.74	84.71
20	83.94	-			-		-	84.79	84.72	84.48	84.74	84.70
21	-	-			-		84.48	84.82	84.71	84.48	84.74	84.75
22	-	-			-		-	84.84	84.70	84.46	84.72	84.76
23	-	-			-		-	84.84	84.69	84.45	84.71	84.75
24	-	-			-		-	84.86	84.68	84.45	84.70	84.75
25	-	-			-		-	84.86	84.68	84.48	84.69	84.74
26	-	-			-		-	84.86	84.67	84.50	84.69	84.74
27	-	-			-		-	84.86	84.65	84.50	84.68	84.74
28	-	-			-		-	84.86	84.64	84.58	84.66	84.74
29	-	-			-		-	84.86	84.63	84.58	84.65	84.75
30	-	84.04			------		-	84.86	84.64	84.57	84.65	84.75
31	-	------			------		------	84.84	------	84.60	84.68	------
MAX	-	-			-		-	84.86	84.84	84.62	84.78	84.76
MIN	-	-			-		-	-	84.63	84.44	84.60	84.68

NOTE.--Ice cover Oct. 21 to May 4.

15275000 Chester Creek at Anchorage

LOCATION.--Lat 61°11'59", long 149°50'07", in SW¼ sec.21, T.13 N., R.3 W., on right bank 10 ft upstream from culverts on Lake Otis Road, 2.3 miles southeast of Anchorage Post Office, and 3.2 miles upstream from mouth.

DRAINAGE AREA.--20.0 sq mi.

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 88.8 ft above mean sea level. Prior to June 25, 1968, nonrecording gage and June 25, 1968 to June 8, 1971, nonrecording gage and crest-stage gage.

AVERAGE DISCHARGE.--13 years, 19.8 cfs (13.44 inches per year, 14,350 acre-ft per year).

EXTREMES.--Current year: Maximum discharge during year, 62 cfs Aug. 9 (gage height, 1.90 ft); maximum gage height observed, 3.20 ft Feb. 3 (backwater from ice); minimum daily discharge, 1.0 cfs Mar. 4-7.
Period of record: Maximum discharge, 95 cfs Apr. 29, 1963 (gage height, 2.40 ft, from graph based on gage readings); maximum gage height observed, 3.8 ft Nov. 29, 1961 (backwater from ice); minimum daily discharge, 1.0 cfs Mar. 4-7, 1971.

REMARKS.--Records fair except those for the period Oct. 1 to June 8, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	6.0	1.8	3.0	1.5	1.7	3.5	21	11	21	29	22
2	11	8.0	1.8	3.2	1.4	1.7	3.5	22	10	16	30	21
3	8.0	9.0	1.8	3.2	1.4	1.4	3.5	16	10	11	24	20
4	8.0	15	2.0	3.5	1.4	1.0	4.0	18	10	11	25	30
5	9.0	13	2.0	3.5	1.4	1.0	4.0	16	11	18	21	34
6	12	9.0	2.0	3.0	2.0	1.0	3.5	20	12	16	29	30
7	11	6.0	2.2	2.8	2.5	1.0	3.5	21	13	16	25	34
8	12	7.0	2.2	2.5	2.5	1.3	3.0	16	12	12	41	24
9	13	6.0	2.2	2.0	2.5	1.7	3.0	15	11	10	53	23
10	11	6.0	2.1	2.0	2.5	1.7	3.0	16	12	8.9	45	21
11	11	9.0	2.0	2.0	2.0	1.7	3.0	14	12	10	41	20
12	12	7.5	2.0	2.0	1.7	1.7	3.0	14	13	14	35	21
13	16	6.5	2.0	2.0	1.7	2.0	3.5	16	14	12	33	21
14	14	6.0	2.0	2.0	1.7	2.0	4.0	18	13	16	33	23
15	12	6.0	2.0	2.0	1.5	2.3	4.5	15	14	14	31	22
16	10	5.5	2.0	1.9	1.5	3.0	5.0	14	14	14	35	22
17	7.0	5.0	2.0	1.9	1.5	3.0	5.0	12	13	9.7	32	23
18	6.0	5.0	2.0	1.8	1.7	3.0	6.2	13	13	10	32	20
19	5.0	5.0	2.0	1.8	1.9	3.5	7.2	11	13	10	30	21
20	5.0	4.5	2.0	1.7	2.0	3.5	9.0	12	13	18	26	20
21	5.0	4.5	2.0	1.7	2.0	3.5	11	11	13	12	25	31
22	4.5	4.5	5.0	1.6	2.0	3.0	13	10	12	16	29	48
23	4.5	4.0	20	1.6	1.6	3.0	14	8.6	12	11	28	36
24	4.5	4.0	10	1.6	1.3	2.5	14	8.6	12	13	23	30
25	4.5	4.0	8.0	1.6	1.1	2.5	16	13	12	20	22	23
26	4.5	4.5	5.0	1.5	1.1	2.5	20	12	13	19	22	22
27	4.5	4.5	4.0	1.5	1.1	3.0	22	11	12	23	29	25
28	5.5	4.5	3.0	1.4	1.5	3.0	23	11	18	28	22	22
29	5.5	4.0	3.0	1.4	------	3.0	26	12	43	31	21	24
30	5.5	3.0	2.5	1.5	------	3.5	19	13	28	24	28	34
31	6.0	------	2.5	1.6	------	3.5	------	12	------	21	23	------
TOTAL	257.5	186.5	105.1	64.8	48.0	72.2	262.9	442.2	419	485.6	922	767
MEAN	8.31	6.22	3.39	2.09	1.71	2.33	8.76	14.3	14.0	15.7	29.7	25.6
MAX	16	15	20	3.5	2.5	3.5	26	22	43	31	53	48
MIN	4.5	3.0	1.8	1.4	1.1	1.0	3.0	8.6	10	8.9	21	20
CFSM	.42	.31	.17	.10	.09	.12	.44	.72	.70	.79	1.49	1.28
IN.	.48	.35	.20	.12	.09	.13	.49	.82	.78	.90	1.71	1.43
AC-FT	511	370	208	129	95	143	521	877	831	963	1,830	1,520

CAL YR 1970 TOTAL 2,989.8 MEAN 8.19 MAX 40 MIN 1.8 CFSM .41 IN 5.56 AC-FT 5,930
WTR YR 1971 TOTAL 4,032.8 MEAN 11.0 MAX 53 MIN 1.0 CFSM .55 IN 7.50 AC-FT 8,000

NOTE.--No gage-height record Jan. 24 to Apr. 15.

15275100 Chester Creek at Arctic Blvd. at Anchorage

LOCATION.--Lat 61°12'19", long 149°53'43", on line between sec.19, R.3 W., and sec.24, R.4 W., T.13 N., on upstream right bank wing-wall of bridge on Arctic Boulevard at Anchorage.

DRAINAGE AREA.--29.3 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 16.02 ft above mean sea level (from USC&GS, datum of 1968).

AVERAGE DISCHARGE.--5 years, 16.3 cfs (7.55 inches per year, 11,810 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 95 cfs Aug. 8 (gage height, 2.97 ft); maximum gage height observed, 4.25 ft Feb. 3 (backwater from ice); minimum daily discharge, 2.0 cfs Mar. 4-7.
Period of record: Maximum discharge, 95 cfs Aug. 8, 1971 (gage height, 2.97 ft); maximum gage height observed 4.25 ft Feb. 3, 1971 (backwater from ice); minimum daily discharge, 2.0 cfs Mar. 4-7, 1971.

REMARKS.--Records poor. Records of chemical analyses for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	10	3.5	4.0	2.3	3.0	6.0	27	14	24	33	23
2	14	11	2.5	5.0	2.2	3.0	6.0	30	13	18	35	20
3	11	12	2.5	5.0	2.2	2.5	6.0	25	13	13	26	19
4	11	24	3.0	6.0	2.2	2.0	7.0	27	13	12	27	29
5	12	19	3.0	6.0	2.2	2.0	8.0	25	14	17	24	43
6	15	16	3.0	5.0	3.0	2.0	7.0	26	15	16	36	29
7	13	13	3.1	4.5	4.0	2.0	7.0	25	16	16	31	32
8	14	10	3.5	4.0	4.0	2.5	6.0	23	15	12	52	27
9	15	9.6	3.5	3.5	4.0	3.0	6.0	22	14	11	60	23
10	13	9.5	3.0	3.0	4.0	3.0	5.0	21	14	9.8	47	22
11	13	12	2.5	3.0	3.5	3.0	5.0	20	16	11	39	20
12	15	10	2.5	3.0	3.5	3.0	7.0	19	17	15	34	20
13	20	9.0	2.5	3.0	3.5	3.5	9.0	22	17	20	37	24
14	16	8.5	2.5	3.0	3.0	3.5	11	18	18	18	35	25
15	15	8.0	2.5	3.0	3.0	4.0	13	18	21	16	32	21
16	13	7.5	3.0	2.8	3.0	5.0	15	17	19	16	36	23
17	10	7.0	2.5	2.8	3.0	5.0	17	16	18	13	34	22
18	8.0	6.5	3.5	2.7	3.2	5.0	20	15	19	13	34	21
19	7.0	6.5	2.5	2.7	3.3	6.0	17	18	18	15	33	22
20	7.0	6.0	2.5	2.6	3.4	6.0	17	20	18	23	30	22
21	7.0	6.0	2.5	2.6	3.4	6.0	18	18	18	14	29	33
22	6.5	6.0	5.0	2.5	3.4	5.5	20	18	18	16	31	45
23	6.5	5.5	30	2.5	3.0	5.5	17	17	16	14	30	35
24	6.5	5.5	15	2.5	2.5	5.0	18	16	16	22	27	28
25	6.5	5.5	9.0	2.4	2.1	5.0	20	18	16	27	25	24
26	6.5	6.0	6.0	2.4	2.1	5.0	25	17	17	26	25	22
27	6.5	6.0	4.5	2.4	2.1	5.5	30	16	17	42	31	23
28	7.5	6.0	4.0	2.3	2.5	5.5	32	16	21	43	25	23
29	7.5	5.5	4.0	2.3	------	5.5	35	15	43	41	24	25
30	7.5	5.0	3.5	2.3	------	6.0	25	16	33	30	31	35
31	9.0	------	3.5	2.5	------	6.0	------	15	------	27	27	------
TOTAL	332.5	272.1	144.1	101.3	83.6	129.5	435.0	616	537	610.8	1,020	780
MEAN	10.7	9.07	4.65	3.27	2.99	4.18	14.5	19.9	17.9	19.7	32.9	26.0
MAX	20	24	30	6.0	4.0	6.0	35	30	43	43	60	45
MIN	6.5	5.0	2.5	2.3	2.1	2.0	5.0	15	13	9.8	24	19
CFSM	.37	.31	.16	.11	.10	.14	.49	.68	.61	.67	1.12	.89
IN.	.42	.35	.18	.13	.11	.16	.55	.78	.68	.78	1.30	.99
AC-FT	660	540	286	201	166	257	863	1,220	1,070	1,210	2,020	1,550

CAL YR 1970 TOTAL 3,764.1 MEAN 10.3 MAX 46 MIN 2.5 CFSM .35 IN 4.78 AC-FT 7,470
WTR YR 1971 TOTAL 5,061.9 MEAN 13.9 MAX 60 MIN 2.0 CFSM .47 IN 6.43 AC-FT 10,040

NOTE.--No gage-height record Nov. 14 to Apr. 15.

15276000 Ship Creek near Anchorage

LOCATION.--Lat 61°13'25", long 149°37'55", in NE¼ sec.16 (revised), T.13 N., R.2 W., in Fort Richardson Military Reservation, at diversion dam and Fort Richardson water-supply intake building, 3.5 miles upstream from North Fork, and 8.5 miles east of Anchorage.

DRAINAGE AREA.--90.5 sq mi.

PERIOD OF RECORD.--October 1946 to current year. (Flow diverted not included).

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 530 ft above mean sea level (levels by Corps of Engineers). Oct. 1, 1946 to Apr. 30, 1947, nonrecording gage and May 1, 1947 to Apr. 19, 1954, water-stage recorder, at site 0.2 mile downstream at different datum. June 18, 1953 to Sept. 30, 1954, supplemental water-stage recorder at site 2.7 miles downstream at different datum.

AVERAGE DISCHARGE.--25 years, 162 cfs (24.31 inches per year, 117,400 acre-ft per year) adjusted to include diversion.

EXTREMES.--Current year: Maximum discharge, 1,580 cfs Aug. 8 (gage height, 4.58 ft); no flow Mar. 4-5.
Period of record: Maximum discharge, 1,860 cfs June 21, 1949 (gage height, 3.44 ft, site and datum then in use); no flow at times.

REMARKS.--Records fair except those during the period Oct. 20 to Apr. 21, which are poor. Discharge data represent net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and City of Anchorage. Average diversion for the water year 1971, 20.9 cfs. Records of chemical analyses for the current year are published in Part 2 of this report.

COOPERATION.--Gage inspected and records of diversion furnished by Office of Post Engineers, Fort Richardson.

REVISIONS.--WSP 1936: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	225	23	30	19	10	4.0	14	60	418	391	219
2	89	160	23	30	18	5.0	4.5	14	52	366	420	214
3	81	136	22	30	18	1.0	5.0	15	50	340	380	200
4	75	168	22	30	18	0	5.0	14	58	353	349	198
5	73	166	30	34	17	0	5.0	15	105	414	342	234
6	84	166	40	32	17	1.0	5.0	18	136	460	429	230
7	82	164	45	28	17	1.2	5.0	22	198	494	446	207
8	80	146	50	24	16	1.3	5.0	20	244	505	1,000	197
9	80	142	55	22	16	1.5	4.5	24	380	536	1,420	186
10	76	131	55	22	16	2.0	4.0	25	410	574	1,250	178
11	74	127	52	22	15	2.5	4.5	35	380	589	1,020	174
12	76	120	52	22	15	3.0	5.0	45	338	559	801	167
13	84	113	52	22	15	2.0	5.0	52	338	690	768	163
14	76	105	52	20	15	4.0	5.4	43	420	687	798	166
15	71	84	50	18	15	10	5.4	42	476	529	652	156
16	66	53	48	20	15	10	6.0	45	439	429	555	156
17	53	70	46	20	15	9.5	5.6	38	356	385	484	148
18	57	60	46	19	15	4.0	6.0	36	312	363	438	146
19	46	60	44	18	15	4.5	5.4	61	299	339	408	148
20	40	54	44	18	14	5.0	5.6	62	344	358	374	136
21	35	58	44	18	14	5.0	5.6	52	418	331	346	176
22	46	56	40	18	14	5.0	5.6	47	302	284	323	156
23	35	45	46	18	14	5.0	6.3	47	473	255	296	146
24	25	30	60	18	12	5.0	7.8	56	714	265	286	142
25	26	25	44	17	8.0	5.0	9.4	64	845	305	283	136
26	40	30	38	17	4.0	5.0	12	57	884	317	261	134
27	70	26	26	17	5.0	6.0	16	49	856	389	245	127
28	90	28	25	17	10	5.0	18	53	698	416	233	127
29	90	24	22	17	------	5.0	16	58	562	367	224	136
30	80	26	28	17	------	4.5	13	58	510	348	218	127
31	200	------	28	18	------	4.0	------	56	------	387	222	------
TOTAL	2,189	2,798	1,252	673	402.0	132.0	210.6	1,237	11,657	13,052	15,662	5,030
MEAN	70.6	93.3	40.4	21.7	14.4	4.26	7.02	39.9	389	421	505	168
MAX	200	225	60	34	19	10	18	64	884	690	1,420	234
MIN	25	24	22	17	4.0	0	4.0	14	50	255	218	127
AC-FT	4,340	5,550	2,480	1,330	797	262	418	2,450	23,120	25,890	31,070	9,980

CAL YR 1970 TOTAL 43,365.9 MEAN 119 MAX 513 MIN 3.5 AC-FT 86,020
WTR YR 1971 TOTAL 54,294.6 MEAN 149 MAX 1,420 MIN 0 AC-FT 107,700

NOTE.--No gage-height record Jan. 20 to Mar. 30.

15276500 Ship Creek at Elmendorf Air Force Base

LOCATION.--Lat 61°14'20", long 149°47'24", in NE¼ sec.10, T.13 N., R.3 W., near right bank on downstream side of bridge at Elmendorf Air Force Base, 3.7 miles northeast of Anchorage Post Office, and 4.9 miles above mouth.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--May 1963 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 142.82 ft above mean sea level. Prior to July 9, 1965, nonrecording gage at datum 1.6 ft higher.

AVERAGE DISCHARGE.--8 years, 113 cfs (81,870 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,610 cfs Aug. 9 (gage height, 4.89 ft); minimum daily, 0.60 cfs Apr. 14.
Period of record: Maximum discharge, 1,610 cfs Aug. 9, 1971 (gage height, 4.89 ft); minimum daily, 0.36 cfs Apr. 13-14, 1970.

REMARKS.--Records poor. Diversions above station for water supply to Fort Richardson, Elmendorf Air Force Base, and City of Anchorage (see station 15276000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	203	3.8	11	1.9	.92	1.5	2.0	35	400	380	213
2	76	154	7.2	11	1.6	.76	1.0	2.1	32	380	400	211
3	72	131	9.4	13	1.5	1.1	1.8	2.2	31	360	360	198
4	66	156	20	10	1.9	.76	1.8	2.2	47	360	330	196
5	63	150	21	14	1.9	1.4	1.2	1.6	66	400	322	231
6	71	144	21	12	2.0	1.5	1.6	1.4	97	420	404	218
7	68	133	30	7.2	2.5	1.5	1.0	7.0	137	440	473	201
8	66	126	34	6.6	2.8	.92	.92	5.8	201	450	732	198
9	64	117	38	3.8	2.4	.92	.92	8.6	268	460	1,300	170
10	63	112	36	4.0	2.4	.84	1.6	8.6	387	500	1,020	160
11	60	105	51	4.8	2.2	.84	1.8	12	384	550	866	150
12	61	97	36	4.5	2.0	1.0	.92	23	343	500	683	150
13	68	91	36	3.4	2.0	1.1	.92	30	352	630	618	152
14	64	83	33	3.8	2.0	1.1	.60	24	418	630	637	158
15	60	60	17	4.0	1.9	1.2	.92	23	450	510	534	148
16	54	35	16	3.2	1.9	1.2	.92	25	418	430	473	146
17	45	60	15	2.8	1.9	1.5	1.1	20	363	380	429	131
18	43	51	14	2.6	1.6	1.9	1.1	15	328	360	398	130
19	33	43	15	2.4	1.8	2.0	1.0	31	313	330	366	130
20	25	53	16	2.2	1.8	1.5	.92	38	334	340	343	122
21	23	55	14	2.3	1.5	1.8	1.0	30	390	330	325	164
22	39	39	16	1.6	1.1	1.8	1.9	27	373	300	307	140
23	21	29	15	1.5	1.4	1.0	1.9	27	430	280	292	133
24	15	15	13	1.6	1.1	1.0	2.2	29	553	280	280	130
25	14	8.0	11	1.8	1.1	1.4	1.9	39	782	300	277	130
26	26	9.0	10	1.8	.92	1.6	1.9	34	827	320	254	160
27	54	6.0	9.4	1.6	1.8	1.2	3.0	28	717	350	242	119
28	69	7.0	7.6	1.5	1.0	1.2	5.0	29	607	420	231	120
29	58	5.0	9.0	1.8	------	1.9	3.4	36	501	370	221	130
30	62	5.5	12	1.8	------	2.0	1.2	34	446	350	218	120
31	166	------	11	1.9	------	1.9	------	33	------	370	221	------
TOTAL	1,746	2,282.5	597.4	145.5	49.92	40.76	46.94	628.5	10,630	12,500	13,936	4,759
MEAN	56.3	76.1	19.3	4.69	1.78	1.31	1.56	20.3	354	403	450	159
MAX	166	203	51	14	2.8	2.0	5.0	39	827	630	1,300	231
MIN	14	5.0	3.8	1.5	.92	.76	.60	1.4	31	280	218	119
AC-FT	3,460	4,530	1,180	289	99	81	93	1,250	21,080	24,790	27,640	9,440

CAL YR 1970 TOTAL 37,449.10 MEAN 103 MAX 429 MIN .36 AC-FT 74,280
WTR YR 1971 TOTAL 47,362.52 MEAN 130 MAX 1,300 MIN .60 AC-FT 93,940

15276570 Ship Creek below Power Plant at Elmendorf Air Force Base

LOCATION.--Lat 61°13'47", long 149°49'38", in SW¼ sec.9, T.13 N., R.3 W., on left bank 200 ft upstream from west boundary of Elmendorf Air Force Base, 0.1 mile downstream from power plant diversion and return, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--115 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 1,600 cfs Aug. 9 (estimated from records at station 15276500 at Elmendorf); minimum, 5.8 cfs Apr. 14 (gage height, 4.91 ft).

REMARKS.--Records fair. Diversions above station for water supply to Fort Richardson, Elmendorf Air Force Base, and City of Anchorage (see station 15276000). Water also diverted for cooling of power plant and returned above station. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	264	23	30	16	17	15	18	56	394	358	220
2	90	171	23	30	17	16	15	18	49	352	388	220
3	80	144	22	30	17	15	14	19	47	310	340	200
4	75	174	22	31	17	15	15	19	66	310	300	200
5	75	174	30	32	17	15	16	19	86	400	272	240
6	80	174	40	32	17	15	15	20	121	448	376	230
7	80	159	44	26	18	15	16	24	165	488	418	210
8	80	156	47	22	18	15	16	23	250	495	800	200
9	80	144	53	19	18	15	14	26	376	530	1,300	200
10	75	141	54	20	18	15	14	26	467	586	1,000	184
11	75	131	53	20	17	15	17	27	436	554	880	177
12	75	126	53	19	17	15	16	39	352	516	700	174
13	85	118	53	19	17	15	14	51	376	586	620	171
14	75	109	53	18	17	15	14	40	495	578	640	177
15	70	79	51	17	17	15	15	39	594	488	550	162
16	60	49	48	19	17	16	16	40	546	448	500	162
17	45	71	45	18	18	16	16	37	406	370	460	156
18	50	60	46	17	17	15	16	30	330	335	450	150
19	39	61	44	16	17	15	19	48	310	310	400	150
20	36	54	44	16	17	13	21	58	364	325	380	141
21	32	60	44	16	17	15	22	47	509	305	350	181
22	45	55	41	16	17	14	22	45	448	259	320	171
23	33	40	49	16	17	15	22	44	578	231	300	156
24	22	30	67	15	16	14	22	46	902	227	280	147
25	25	25	46	15	16	14	20	61	890	268	280	141
26	38	30	38	15	16	15	24	54	962	295	270	139
27	66	26	29	15	16	15	26	48	938	335	250	134
28	90	28	23	15	16	15	26	48	682	436	240	126
29	81	24	26	15	------	15	23	56	509	364	230	134
30	79	26	28	15	------	14	19	56	460	295	220	136
31	184	------	28	16	------	14	------	52	------	340	220	------
TOTAL	2,110	2,903	1,267	620	475	463	540	1,178	12,770	12,178	14,092	5,189
MEAN	68.1	96.8	40.9	20.0	17.0	14.9	18.0	38.0	426	393	455	173
MAX	184	264	67	32	18	17	26	61	962	586	1,300	240
MIN	22	24	22	15	16	13	14	18	47	227	220	126
AC-FT	4,190	5,760	2,510	1,230	942	918	1,070	2,340	25,330	24,160	27,950	10,290

WTR YR 1971 TOTAL 53,785 MEAN 147 MAX 1,300 MIN 13 AC-FT 106,700

NOTE.--No gage-height record Aug. 8 to Sept. 9.

15277100 Eagle River at Eagle River

LOCATION.--Lat 61°18'28", long 149°33'32", in NW¼ sec.13, T.14 N., R.2 W., on right bank, 800 ft upstream from Eagle River campground, 0.6 mile upstream from Glenn Highway crossing, and 1.0 mile south of Eagle River.

DRAINAGE AREA.--192 sq mi, approximately.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 526 cfs (37.19 inches per year, 381,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 4,750 cfs Aug. 9 (gage height, 8.50 ft, from recorded range in stage); minimum daily, 35 cfs Apr. 16-30.
Period of record: Maximum discharge, 6,240 cfs Sept. 18, 1967 (gage height, 9.49 ft); minimum daily, 30 cfs Jan. 29 to Feb. 10, 1969.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	160	82	62	50	46	37	36	143	1,150	1,800	1,290
2	300	120	82	62	50	45	37	36	139	1,010	1,900	1,220
3	297	110	80	64	50	45	37	36	129	922	1,700	1,050
4	264	130	80	66	50	44	37	36	143	901	1,400	898
5	231	170	80	66	50	44	37	37	169	1,030	1,200	881
6	255	140	80	66	52	43	36	37	243	1,210	1,500	804
7	249	130	80	64	54	43	36	37	312	1,390	2,000	662
8	230	120	80	62	60	42	36	38	382	1,500	3,000	601
9	220	115	80	62	65	42	36	39	462	1,650	4,500	564
10	210	110	80	60	62	42	36	40	656	1,920	4,000	531
11	200	105	78	60	59	41	36	42	680	2,180	3,500	495
12	190	100	78	60	56	41	36	45	638	2,410	2,800	471
13	180	98	78	58	54	40	36	55	674	2,950	2,800	461
14	170	96	78	58	54	40	36	60	740	3,430	2,940	468
15	173	94	78	58	52	39	36	60	838	2,940	2,560	447
16	153	92	76	56	52	39	35	55	734	2,450	2,200	439
17	151	90	76	56	52	39	35	60	626	2,090	1,990	456
18	155	90	76	56	50	39	35	80	535	1,950	2,050	405
19	137	88	76	54	50	39	35	120	520	1,780	1,870	372
20	80	88	76	54	50	39	35	130	545	2,090	1,670	402
21	110	86	74	54	50	38	35	140	674	2,030	1,590	502
22	120	86	74	54	49	38	35	130	686	1,700	1,650	502
23	110	86	74	52	49	38	35	120	728	1,500	1,580	427
24	105	84	74	52	48	38	35	120	971	1,150	1,450	380
25	100	84	70	52	48	38	35	130	1,400	1,300	1,390	354
26	100	84	66	52	47	37	35	140	1,640	1,500	1,350	330
27	110	84	64	52	47	37	35	133	1,820	1,800	1,240	307
28	130	82	64	52	46	37	35	137	1,670	2,100	1,070	290
29	160	82	62	50	------	37	35	143	1,470	1,800	1,030	284
30	180	82	62	50	------	37	35	139	1,370	1,500	1,110	277
31	220	------	62	50	------	37	------	135	------	1,600	1,210	------
TOTAL	5,599	3,086	2,320	1,774	1,456	1,244	1,070	2,546	21,737	54,933	62,050	16,570
MEAN	181	103	74.8	57.2	52.0	40.1	35.7	82.1	725	1,772	2,002	552
MAX	309	170	82	66	65	46	37	143	1,820	3,430	4,500	1,290
MIN	80	82	62	50	46	37	35	36	129	901	1,030	277
CFSM	.94	.54	.39	.30	.27	.21	.19	.43	3.78	9.23	10.4	2.88
IN.	1.08	.60	.45	.34	.28	.24	.21	.49	4.21	10.64	12.02	3.21
AC-FT	11,110	6,120	4,600	3,520	2,890	2,470	2,120	5,050	43,120	109,000	123,100	32,870

CAL YR 1970 TOTAL 147,005 MEAN 403 MAX 2,370 MIN 62 CFSM 2.10 IN 28.48 AC-FT 291,600
WTR YR 1971 TOTAL 174,385 MEAN 478 MAX 4,500 MIN 35 CFSM 2.49 IN 33.79 AC-FT 345,900

NOTE.--No gage-height record Oct. 24 to May 26 and July 22 to Aug. 13.

15281000 Knik River near Palmer

LOCATION.--Lat 61°30'18", long 149°01'50", in SE¼ sec.2, T.16 N., R.2 E., near center of span on downstream side of bridge on old Glenn Highway, and 7 miles south of Palmer.

DRAINAGE AREA.--1,180 sq mi, approximately.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 30.2 ft above mean sea level. Prior to June 27, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--12 years, 6,891 cfs (4,993,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 45,800 cfs Aug. 10 (gage height, 12.52 ft); minimum daily, 440 cfs Mar. 1-26.
Period of record: Maximum discharge, 355,000 cfs July 26, 1961 (gage height, 24.3 ft), caused by release of stored water (Lake George) behind Knik Glacier; maximum gage height, 24.35 ft July 17, 1960; minimum discharge not determined.
Maximum stage known, 25.30 ft July 18, 1958 (discharge, 359,000 cfs).

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Flood peaks due to the outbreak of Lake George, 1948-62, 1964, 1965, published in WSP 1936. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,500	7,000	1,000	600	460	440	500	800	3,460	16,900	25,600	18,400
2	6,000	5,500	1,000	600	460	440	550	800	3,890	15,600	26,300	17,600
3	5,500	4,600	950	550	460	440	550	850	3,890	14,300	25,200	16,400
4	5,500	3,600	950	550	460	440	550	850	3,930	13,800	24,800	14,600
5	7,000	4,000	900	550	460	440	550	850	4,400	14,800	24,200	13,400
6	8,000	4,600	900	550	460	440	550	900	5,280	16,800	24,100	13,000
7	6,500	4,200	850	550	460	440	550	950	5,880	18,800	24,100	11,400
8	5,000	4,000	850	550	460	440	550	1,000	6,600	20,800	27,700	10,800
9	4,000	3,600	800	550	460	440	550	1,100	7,600	22,000	34,900	10,500
10	3,000	3,200	800	550	460	440	550	1,100	9,000	24,100	42,500	10,100
11	2,000	2,800	800	500	460	440	600	1,200	9,080	26,300	40,600	9,520
12	2,400	2,600	750	500	460	440	600	1,200	8,640	27,900	36,700	9,240
13	2,200	2,400	750	500	460	440	600	1,300	8,200	31,800	32,900	9,080
14	2,000	2,200	750	500	460	440	600	1,400	8,680	35,800	29,800	8,880
15	2,000	2,000	700	500	460	440	600	1,500	9,290	34,500	27,100	8,760
16	1,900	1,900	700	500	460	440	600	1,500	9,600	31,500	25,200	9,000
17	1,800	1,800	700	500	460	440	600	1,600	9,830	30,400	24,300	9,520
18	1,800	1,700	700	500	460	440	600	1,700	9,470	28,000	24,500	9,470
19	1,700	1,600	700	500	460	440	650	1,800	9,420	26,200	23,700	9,040
20	1,700	1,600	700	500	460	440	650	1,900	9,560	26,900	22,700	9,470
21	1,600	1,500	650	500	460	440	650	2,000	10,900	28,200	21,400	9,960
22	1,600	1,500	650	500	460	440	650	2,200	11,100	27,000	21,700	9,470
23	1,600	1,400	650	480	460	440	650	2,400	12,200	24,700	21,600	8,640
24	1,600	1,300	650	480	460	440	650	2,400	14,700	22,900	21,900	7,920
25	1,600	1,300	650	480	460	440	650	2,600	17,400	23,000	20,600	7,640
26	1,700	1,200	600	480	460	440	700	2,600	19,600	25,000	19,100	6,960
27	1,800	1,200	600	480	460	460	700	2,800	22,000	26,600	18,400	6,560
28	2,000	1,100	600	480	460	460	750	2,800	22,200	24,700	17,000	6,000
29	2,400	1,100	600	480	------	480	750	3,000	20,200	23,700	16,400	5,720
30	3,400	1,100	600	480	------	500	750	3,200	19,700	22,800	16,200	5,600
31	5,000	------	600	480	------	500	------	3,200	------	23,700	17,000	------
TOTAL	99,800	77,600	23,100	15,920	12,880	13,840	18,450	53,500	315,700	749,500	778,200	302,650
MEAN	3,219	2,587	745	514	460	446	615	1,726	10,520	24,180	25,100	10,090
MAX	8,000	7,000	1,000	600	460	500	750	3,200	22,200	35,800	42,500	18,400
MIN	1,600	1,100	600	480	460	440	500	800	3,460	13,800	16,200	5,600
AC-FT	198,000	153,900	45,820	31,580	25,550	27,450	36,600	106,100	626,200	1,487M	1,544M	600,300

CAL YR 1970 TOTAL 2,094,340 MEAN 5,738 MAX 24,000 MIN 600 AC-FT 4,154,000
WTR YR 1971 TOTAL 2,461,140 MEAN 6,743 MAX 42,500 MIN 440 AC-FT 4,882,000

NOTE.--No gage-height record Oct. 1 to May 24.

M.--Expressed in thousands.

15282000 Caribou Creek near Sutton

LOCATION.--Lat 61°48'12", long 147°40'57", in SE¼ sec.20, T.20 N., R.10 E., on left pier of bridge on Glenn Highway, 1.4 miles downstream from Dan Creek, 1.8 miles upstream from mouth, and 40 miles east of Sutton.

DRAINAGE AREA.--289 sq mi.

RECORDS AVAILABLE.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,767 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 304 cfs (220,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,060 cfs June 9 (gage height, 6.59 ft); no flow Mar. 10-18.
Period of record: Maximum discharge, 7,670 cfs June 16, 1962 (gage height, 6.89 ft); no flow Mar. 16 to Apr. 10, 1966 and Mar. 10-18, 1971.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Large diurnal fluctuations at times each year caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	80	36	19	11	3.0	7.0	24	200	617	212	668
2	166	75	34	19	11	3.0	7.0	26	200	603	251	829
3	145	75	34	18	11	3.0	8.0	28	240	631	385	752
4	130	70	34	18	11	2.0	8.0	30	400	774	265	686
5	140	70	32	17	11	2.0	9.0	32	800	823	230	638
6	130	65	32	17	10	2.0	9.0	34	1,200	959	248	608
7	130	65	30	17	10	1.0	10	36	1,600	738	316	584
8	130	60	30	17	10	1.0	10	38	1,300	780	843	584
9	120	60	28	16	10	1.0	10	40	2,460	698	1,260	560
10	120	60	28	16	10	0	11	44	2,890	626	2,560	554
11	120	55	28	16	9.0	0	11	46	3,140	590	984	525
12	110	55	26	16	9.0	0	11	50	2,760	554	686	505
13	110	55	26	16	9.0	0	12	55	1,760	644	759	465
14	100	50	26	15	8.0	0	12	60	1,590	752	1,200	440
15	95	50	26	15	8.0	0	12	70	1,240	542	984	415
16	90	50	26	15	8.0	0	12	80	990	620	766	405
17	90	48	24	15	7.0	0	13	90	780	445	650	368
18	85	46	24	15	7.0	0	13	100	763	376	560	348
19	85	46	24	14	7.0	1.0	13	110	898	332	530	340
20	85	44	24	14	6.0	1.0	14	120	1,450	320	731	328
21	80	42	24	14	6.0	1.0	14	140	1,370	283	864	360
22	80	42	22	13	6.0	2.0	15	160	1,460	244	738	380
23	80	40	22	13	5.0	2.0	16	180	2,050	224	650	360
24	75	40	22	13	5.0	3.0	16	200	1,870	215	857	352
25	75	40	22	13	5.0	3.0	17	260	1,280	206	1,800	316
26	75	40	22	12	4.0	4.0	18	230	930	197	1,340	308
27	75	38	22	12	4.0	4.0	19	200	1,010	191	1,060	272
28	75	38	20	12	4.0	5.0	20	200	929	182	878	272
29	75	38	20	12	------	5.0	22	190	896	173	773	286
30	80	36	20	11	------	6.0	22	190	790	162	698	279
31	80	------	20	11	------	6.0	------	190	------	185	680	------
TOTAL	3,195	1,573	808	461	222.0	61.0	391.0	3,253	39,246	14,686	24,758	13,787
MEAN	103	52.4	26.1	14.9	7.93	1.97	13.0	105	1,308	474	799	460
MAX	166	80	36	19	11	6.0	22	260	3,140	959	2,560	829
MIN	75	36	20	11	4.0	0	7.0	24	200	162	212	272
AC-FT	6,340	3,120	1,600	914	440	121	776	6,450	77,840	29,130	49,110	27,350

CAL YR 1970 TOTAL 94,493.0 MEAN 259 MAX 3,600 MIN 5.0 AC-FT 187,400
WTR YR 1971 TOTAL 102,441.0 MEAN 281 MAX 3,140 MIN 0 AC-FT 203,200

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-09	2200	6.59	5,060	08-10	0930	5.82	3,770
06-23	2100	6.20	4,190				

NOTE.--No gage-height record Oct. 4 to June 8.

15284000 Matanuska River at Palmer

LOCATION.--Lat 61°36'34", long 149°04'16", in N½ sec.34, T.18 N., R.2 E., on left bank 100 ft downstream from bridge on old Glenn Highway, and 1 mile east of Palmer.

DRAINAGE AREA.--2,070 sq mi, approximately.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 170.92 ft above mean sea level (Alaska Road Commission bench mark). Prior to Nov. 2, 1950, nonrecording gage at bridge 120 ft upstream at same datum. Nov. 2, 1950 to Apr. 30, 1952, nonrecording gage at bridge 100 ft upstream at same datum.

AVERAGE DISCHARGE.--22 years, 3,891 cfs (2,819,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 82,100 cfs Aug. 10 (gage height, 13.60 ft), from rating curve extended above 34,000 cfs on basis of velocity-area study; minimum daily, 360 cfs Feb. 16 to Mar. 31.
Period of record: Maximum discharge, 82,100 cfs Aug. 10, 1971 (gage height, 13.60 ft), from rating curve extended above 34,000 34,000 cfs on basis of velocity-area study; minimum daily, 234 cfs Apr. 25, 1956.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Large diurnal fluctuations at times each year caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,900	1,900	1,000	700	440	360	380	672	1,370	11,500	12,500	9,080
2	2,000	1,700	1,000	650	440	360	380	639	1,370	12,200	13,400	9,560
3	1,900	1,600	1,000	650	420	360	380	682	1,500	12,800	13,000	8,870
4	1,800	1,600	1,000	600	420	360	400	656	1,790	13,800	11,900	7,750
5	1,700	1,600	1,000	600	420	360	400	646	3,330	18,700	11,100	6,900
6	2,200	1,700	1,000	600	400	360	400	702	6,720	21,700	11,800	6,310
7	2,000	1,500	1,000	600	400	360	420	741	10,100	18,400	13,400	5,670
8	1,800	1,500	1,000	600	380	360	420	658	8,370	16,600	21,800	5,230
9	1,700	1,400	1,000	600	380	360	420	639	6,750	12,600	34,900	4,930
10	1,600	1,400	1,000	600	380	360	420	654	12,600	13,100	40,700	4,760
11	1,600	1,300	1,000	550	380	360	440	674	12,500	12,100	32,000	4,730
12	1,800	1,300	950	550	380	360	440	808	13,500	11,000	27,400	4,640
13	1,700	1,300	950	550	380	360	440	888	10,900	10,800	23,800	4,460
14	1,600	1,300	950	550	380	360	460	800	11,200	10,200	21,300	4,430
15	1,600	1,300	950	550	380	360	460	768	10,100	12,000	16,700	4,250
16	1,600	1,200	900	550	360	360	480	798	9,200	13,000	13,900	4,190
17	1,600	1,200	900	550	360	360	480	798	8,010	11,000	12,700	4,160
18	1,600	1,200	900	550	360	360	500	747	7,150	10,000	11,700	4,000
19	1,500	1,200	900	550	360	360	500	958	8,080	10,000	11,100	3,900
20	1,500	1,200	850	550	360	360	500	1,220	14,700	9,500	11,200	4,080
21	1,500	1,200	850	550	360	360	550	1,340	13,300	9,500	11,500	4,280
22	1,500	1,100	800	550	360	360	550	1,300	21,000	9,500	11,100	4,000
23	1,500	1,100	800	500	360	360	550	1,320	21,400	9,000	10,500	3,980
24	1,400	1,100	800	500	360	360	550	1,330	22,800	9,000	11,200	3,900
25	1,400	1,100	800	500	360	360	600	1,730	20,200	9,000	13,700	3,820
26	1,400	1,100	750	500	360	360	600	2,170	19,300	9,280	13,600	3,700
27	1,400	1,100	750	500	360	360	600	1,720	14,900	10,100	11,800	3,600
28	1,400	1,100	750	480	360	360	650	1,340	10,100	10,200	10,400	3,550
29	1,500	1,100	750	480	------	360	650	1,290	9,190	9,900	9,700	3,580
30	1,600	1,100	700	460	------	360	700	1,370	10,400	10,500	9,070	3,580
31	1,900	------	700	460	------	360	------	1,430	------	11,600	8,740	------
TOTAL	51,200	39,500	27,700	17,180	10,660	11,160	14,720	31,488	321,830	368,580	487,610	149,890
MEAN	1,652	1,317	894	554	381	360	491	1,016	10,730	11,890	15,730	4,996
MAX	2,200	1,900	1,000	700	440	360	700	2,170	22,800	21,700	40,700	9,560
MIN	1,400	1,100	700	460	360	360	380	639	1,370	9,000	8,740	3,550
AC-FT	101,600	78,350	54,940	34,080	21,140	22,140	29,200	62,460	638,300	731,100	967,200	297,300

CAL YR 1970 TOTAL 1,160,186 MEAN 3,179 MAX 20,700 MIN 430 AC-FT 2,301,000
WTR YR 1971 TOTAL 1,531,518 MEAN 4,196 MAX 40,700 MIN 360 AC-FT 3,038,000

NOTE.--No gage-height record Oct. 1 to Apr. 29.

15290000 Little Susitna River near Palmer

LOCATION.--Lat 61°42'32", long 149°13'36", in NW¼ sec.26, T.19 N., R.1 E., on left bank at highway bridge on Wasilla-Fishhook Road, 1.5 miles north of road junction, 1.8 miles downstream from unnamed tributary and 8 miles northwest of Palmer.

DRAINAGE AREA.--61.9 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 920.6 ft above mean sea level (river-profile survey). Prior to Aug. 16, 1948, non-recording gage.

AVERAGE DISCHARGE.--23 years, 203 cfs (147,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 7,840 cfs Aug. 10 (gage height, 7.84 ft, in gage well; 10.30 ft, top of needle peak in gage well; about 11 ft, from floodmarks), from rating curve extended above 4,600 cfs on basis of slope-area measurement of peak flow; minimum daily, 17 cfs Mar. 8-17.

Period of record: Maximum discharge, 7,840 cfs Aug. 10, 1971 (gage height, 7.84 ft, in gage well, 10.30 ft, top of needle peak in gage well; about 11 ft, from floodmarks), from rating curve extended above 4,600 cfs on basis of slope-area measurement of peak flow; minimum not determined.

REMARKS.--Records fair except those for the period Aug. 9, 10 and during winter months, which are poor. Large diurnal fluctuation at times each year caused by glacier melt at the source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	140	38	36	26	20	18	19	90	605	530	259
2	188	130	38	36	26	20	18	19	91	530	480	298
3	150	120	38	36	26	20	18	19	109	530	423	250
4	135	110	38	34	26	19	18	20	159	624	370	230
5	130	110	38	34	26	19	18	21	246	760	346	262
6	135	110	38	34	26	18	18	24	342	766	658	274
7	130	100	38	34	26	18	18	25	390	760	1,060	235
8	135	95	38	34	26	17	18	23	382	895	2,330	218
9	129	90	38	34	26	17	18	23	414	853	4,550	205
10	123	85	40	32	26	17	18	25	495	895	5,040	194
11	122	80	40	32	24	17	18	30	515	867	2,070	184
12	124	75	42	32	24	17	18	38	510	760	1,410	174
13	138	70	44	30	24	17	18	49	550	1,370	1,180	166
14	126	70	46	30	24	17	18	38	575	1,250	978	164
15	120	65	46	30	24	17	18	37	590	832	722	151
16	110	60	44	30	26	17	18	41	585	682	615	146
17	100	60	44	30	26	17	18	43	555	590	536	142
18	100	55	44	30	26	18	18	46	500	515	482	134
19	95	55	44	30	26	19	18	66	560	460	474	129
20	90	50	46	28	26	20	18	68	736	485	444	132
21	90	48	48	28	22	20	18	68	860	410	400	186
22	90	46	50	28	22	19	18	74	853	336	356	178
23	90	44	50	28	22	19	19	69	1,150	311	328	151
24	90	42	55	28	22	18	19	85	1,680	320	338	144
25	90	42	55	28	22	18	19	104	1,600	370	359	134
26	95	40	50	28	22	18	19	105	1,520	382	359	129
27	110	40	46	28	22	18	19	90	1,390	370	304	120
28	110	40	42	26	22	18	19	91	1,080	398	274	110
29	110	38	40	26	------	18	19	98	909	370	256	110
30	120	38	38	26	------	18	19	94	825	356	248	110
31	130	------	36	26	------	18	------	88	------	640	245	------
TOTAL	3,656	2,148	1,332	946	686	563	548	1,640	20,261	19,292	28,165	5,319
MEAN	118	71.6	43.0	30.5	24.5	18.2	18.3	52.9	675	622	909	177
MAX	188	140	55	36	26	20	19	105	1,680	1,370	5,040	298
MIN	90	38	36	26	22	17	18	19	90	311	245	110
AC-FT	7,250	4,260	2,640	1,880	1,360	1,120	1,090	3,250	40,190	38,270	55,870	10,550

CAL YR 1970 TOTAL 59,964 MEAN 164 MAX 664 MIN 19 AC-FT 118,900
WTR YR 1971 TOTAL 84,556 MEAN 232 MAX 5,040 MIN 17 AC-FT 167,700

PEAK DISCHARGE (BASE, 1,200 CFS) (revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-24	2200	5.47	2,010	08-10	0700	7.84	7,840
07-13	1800	5.17	1,660				

NOTE.--No gage-height record Oct. 23 to Apr. 26.

15291000 Susitna River near Denali

LOCATION.--Lat 63°06'14", long 147°30'57", in NE¼ sec.10, T.21 S., R.1 E., on left upstream wingwall of bridge on Denali Highway, 0.2 mile downstream from Windy Creek, 3.3 miles upstream from Butte Creek, and 5.3 miles southwest of Denali.

DRAINAGE AREA.--950 sq mi, approximately.

PERIOD OF RECORD.--May 1957 to September 1966, July 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,440 ft (from topographic map). Prior to May 27, 1965, water-stage recorder at site 1.9 miles downstream at different datum. May 27, 1965 to Sept. 30, 1966, nonrecording gage near opposite end of bridge at same datum.

AVERAGE DISCHARGE.--12 years (1958-66, 1969-71), 2,665 cfs (1,931,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 38,200 cfs Aug. 10 (gage height, 13.32 ft), from rating curve extended above 19,000 cfs; minimum daily, 120 cfs Feb. 16 to Apr. 10.

Period of record: Maximum discharge, 38,200 cfs Aug. 10, 1971 (gage height, 13.32 ft), from rating curve extended above 19,000 cfs maximum gage height, 13.58 ft May 11, 1970 (backwater from ice); minimum discharge not determined.

Flood of Aug. 14 or 15, 1967 reached a discharge of 28,200 cfs (gage height, 12.7 ft, from floodmarks) from rating curve extended above 19,000 cfs.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Large diurnal fluctuation at times each year caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	573	460	300	220	130	120	120	170	2,400	9,100	12,600	8,820
2	554	460	300	220	130	120	120	180	2,600	6,140	16,500	8,860
3	530	460	300	220	130	120	120	190	3,000	5,220	1,500	7,900
4	600	460	300	220	130	120	120	200	3,400	5,770	1,400	6,500
5	550	460	300	200	130	120	120	200	4,000	6,030	1,200	5,610
6	550	440	300	200	130	120	120	220	4,400	6,920	1,100	5,090
7	531	440	300	200	130	120	120	220	5,000	7,520	1,200	4,330
8	573	440	300	200	130	120	120	240	5,500	8,160	1,500	3,870
9	625	440	300	190	130	120	120	260	6,500	10,000	23,200	3,720
10	588	440	300	190	130	120	120	280	7,090	11,000	33,400	3,620
11	592	440	280	180	130	120	130	300	7,960	12,500	33,300	3,350
12	560	420	280	180	130	120	130	320	9,550	12,300	24,600	3,080
13	560	420	280	180	130	120	130	340	9,690	15,400	20,200	2,900
14	560	420	280	170	130	120	130	360	6,510	20,500	14,900	2,740
15	560	400	280	170	130	120	130	380	4,700	23,200	10,400	2,600
16	550	400	280	160	120	120	130	420	4,640	22,000	8,430	2,450
17	550	380	280	160	120	120	130	460	5,860	15,800	7,830	2,540
18	500	380	280	160	120	120	130	500	5,920	11,100	7,650	1,990
19	500	380	280	160	120	120	140	550	5,870	9,680	7,870	1,620
20	500	360	280	150	120	120	140	600	6,760	8,860	10,300	1,570
21	500	360	260	150	120	120	140	650	7,310	10,100	9,200	1,880
22	500	360	260	150	120	120	140	700	8,480	7,530	8,500	1,990
23	500	360	260	150	120	120	150	750	9,530	6,040	8,500	1,710
24	480	340	260	140	120	120	150	850	13,300	4,970	8,000	1,510
25	480	340	260	140	120	120	150	950	14,500	6,530	8,000	1,410
26	480	320	260	140	120	120	150	1,100	16,100	9,340	7,500	1,390
27	480	320	240	140	120	120	160	1,300	17,600	9,540	7,500	1,500
28	460	320	240	140	120	120	160	1,400	15,600	11,500	7,000	1,360
29	460	320	240	130	------	120	160	1,600	14,600	11,200	6,500	1,380
30	460	320	240	130	------	120	170	1,800	14,600	9,440	6,000	1,360
31	460	------	240	130	------	120	------	2,000	------	9,330	6,500	------
TOTAL	16,366	11,860	8,560	5,270	3,510	3,720	4,050	19,490	242,970	322,720	322,280	98,650
MEAN	528	395	276	170	125	120	135	629	8,099	10,410	10,400	3,288
MAX	625	460	300	220	130	120	170	2,000	17,600	23,200	33,400	8,860
MIN	460	320	240	130	120	120	120	170	2,400	4,970	1,100	1,360
AC-FT	32,460	23,520	16,980	10,450	6,960	7,380	8,030	38,660	481,900	640,100	639,200	195,700

CAL YR 1970 TOTAL 798,755 MEAN 2,188 MAX 12,900 MIN 190 AC-FT 1,584,000
WTR YR 1971 TOTAL 1,059,446 MEAN 2,903 MAX 33,400 MIN 120 AC-FT 2,101,000

PEAK DISCHARGE (BASE, 14,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-27	0500	12.08	19,800	08-02	0730	11.88	17,400
07-15	1830	12.48	25,000	08-10	1730	13.32	38,200

NOTE.--No gage-height record Oct. 16 to June 4.

15291200 Maclaren River near Paxson

LOCATION.--Lat 63°07'10", long 146°31'45", near left bank on downstream side of bridge on Denali Highway, 1.5 miles downstream from Boulder Creek, and 34 miles west of Paxson.

DRAINAGE AREA.--280 sq mi, approximately.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,865.84 ft above mean sea level (Alaska Department of Public Works bench mark). Prior to Sept. 20, 1961, at site 1,200 ft downstream at same datum. Sept. 20, 1961 to June 7, 1964, at present site and datum; June 8, 1964 to Aug. 22, 1968, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--13 years, 982 cfs (711,500 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 9,260 cfs Aug. 11 (gage height, 8.24 ft), from rating curve extended above 5,300 cfs; minimum daily, 55 cfs Mar. 1 to Apr. 5.
Period of record: Maximum discharge, 9,260 cfs Aug. 11, 1971 (gage height, 8.24 ft), from rating curve extended above 5,300 cfs; maximum gage height, 9.10 ft in May 1964, from floodmarks (backwater from ice); minimum discharge not determined.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Diurnal fluctuation at times each year caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	439	220	150	100	65	55	55	90	1,000	3,340	4,530	2,030
2	428	220	150	100	65	55	55	95	1,100	2,670	5,670	2,900
3	403	220	150	100	60	55	55	100	1,200	2,400	4,880	2,580
4	434	220	150	100	60	55	55	100	1,300	2,540	4,080	2,370
5	388	220	150	100	60	55	55	110	1,500	2,650	3,580	1,980
6	358	220	140	95	60	55	60	110	1,600	2,820	3,480	1,730
7	373	220	140	95	60	55	60	120	1,980	3,050	3,730	1,490
8	358	200	140	95	60	55	60	130	2,480	3,340	4,390	1,350
9	349	200	140	95	60	55	60	140	3,080	3,430	5,660	1,420
10	333	200	140	95	60	55	60	150	3,670	3,520	7,740	1,260
11	326	200	140	90	60	55	60	160	4,620	3,730	8,100	1,110
12	320	200	140	90	60	55	60	170	5,110	3,870	5,930	1,010
13	320	200	140	90	60	55	60	190	4,290	4,610	4,910	929
14	300	200	140	85	60	55	60	220	3,460	5,830	4,060	954
15	300	200	140	85	60	55	60	240	3,120	5,210	3,450	901
16	300	200	130	85	60	55	65	260	3,050	4,520	3,020	927
17	280	190	130	80	60	55	65	280	3,130	4,020	2,660	883
18	280	190	130	80	60	55	65	300	2,900	3,620	2,540	770
19	260	190	130	80	60	55	65	340	2,860	3,410	2,590	745
20	260	180	130	75	60	55	65	380	3,270	3,410	3,150	806
21	260	180	120	75	60	55	70	420	3,650	3,390	2,860	897
22	240	180	120	75	60	55	70	460	4,120	2,960	2,630	914
23	240	170	120	75	60	55	70	500	4,440	2,540	2,540	767
24	240	170	120	70	60	55	75	550	5,350	2,420	2,510	709
25	220	170	120	70	60	55	75	600	5,520	3,440	2,370	648
26	220	160	110	70	60	55	80	650	5,360	4,370	2,290	631
27	220	160	110	70	60	55	80	750	5,000	3,870	2,300	581
28	220	160	110	70	60	55	85	850	4,780	4,190	2,060	564
29	220	160	110	65	------	55	85	900	4,940	3,760	1,930	550
30	220	160	110	65	------	55	90	950	4,530	3,180	1,830	550
31	220	------	110	65	------	55	------	1,000	------	3,250	1,970	------
TOTAL	9,329	5,760	4,060	2,585	1,690	1,705	1,980	11,315	102,410	109,360	113,440	34,956
MEAN	301	192	131	83.4	60.4	55.0	66.0	365	3,414	3,528	3,659	1,165
MAX	439	220	150	100	65	55	90	1,000	5,520	5,830	8,100	2,900
MIN	220	160	110	65	60	55	55	90	1,000	2,400	1,830	550
AC-FT	18,500	11,420	8,050	5,130	3,350	3,380	3,930	22,440	203,100	216,900	225,000	69,340

CAL YR 1970 TOTAL 273,975 MEAN 751 MAX 4,410 MIN 50 AC-FT 543,400
WTR YR 1971 TOTAL 398,590 MEAN 1,092 MAX 8,100 MIN 55 AC-FT 790,600

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
06-11	2300	6.16	5,290	07-26	0500	5.86	4,800
06-25	0530	6.48	5,840	08-02	1300	6.52	5,920
07-15	0100	6.55	5,970	08-11	0130	8.24	9,260

NOTE.--No gage-height record Oct. 16 to June 3.

15291500 Susitna River near Cantwell

LOCATION.--Lat 62°41'57", long 147°32'40", on right bank at lower end of gorge, 1.1 miles downstream from small tributary, 13 miles upstream from Jay Creek, and 65 miles southeast of Cantwell.

DRAINAGE AREA.--4,140 sq mi, approximately.

PERIOD OF RECORD.--May 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,900 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 6,233 cfs (4,516,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 55,000 cfs Aug. 10, on basis of discharge record at stations 15291000 and 15292000; minimum daily, 460 cfs Mar. 16 to Apr. 6.
Period of record: Maximum daily discharge, 55,000 cfs Aug. 10, 1971, on basis of discharge record at stations 15291000 and 15292000; minimum not determined.

REMARKS.--Records poor. Large diurnal fluctuations at times each year caused by glacier melt at the source. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,800	1,800	1,200	900	550	480	460	700	6,500	24,000	20,000	13,000
2	2,600	1,800	1,200	900	550	480	460	700	6,500	19,000	24,000	15,000
3	2,400	1,800	1,200	850	550	480	460	750	7,000	15,000	24,000	18,000
4	2,400	1,700	1,200	850	550	480	460	750	8,000	15,000	22,000	18,000
5	2,400	1,700	1,200	850	550	480	460	800	10,000	14,000	19,000	16,000
6	2,600	1,700	1,200	850	550	480	460	800	14,000	14,000	17,000	15,000
7	2,600	1,700	1,100	800	550	480	480	850	18,000	14,000	20,000	13,000
8	2,400	1,700	1,100	800	500	480	480	850	22,000	14,000	26,000	12,000
9	2,400	1,700	1,100	800	500	480	480	900	24,000	15,000	36,000	12,000
10	2,400	1,600	1,100	800	500	480	480	900	32,000	16,000	55,000	11,000
11	2,400	1,600	1,100	750	500	480	480	950	38,000	17,000	50,000	11,000
12	2,200	1,600	1,100	750	500	480	500	1,000	44,000	19,000	44,000	10,000
13	2,200	1,600	1,100	750	500	480	500	1,100	34,000	24,000	36,000	9,000
14	2,200	1,500	1,100	750	500	480	500	1,100	28,000	30,000	30,000	8,500
15	2,200	1,500	1,100	750	500	480	500	1,200	20,000	34,000	26,000	8,000
16	2,200	1,500	1,000	750	480	460	500	1,300	18,000	31,000	21,000	8,000
17	2,000	1,500	1,000	700	480	460	500	1,400	18,000	28,000	18,000	8,000
18	2,000	1,500	1,000	700	480	460	550	1,500	18,000	24,000	16,000	7,500
19	2,000	1,500	1,000	700	480	460	550	1,600	18,000	18,000	15,000	7,000
20	2,000	1,400	1,000	700	480	460	550	1,700	19,000	15,000	17,000	7,000
21	2,000	1,400	1,000	700	480	460	550	1,800	20,000	16,000	22,000	7,500
22	1,900	1,400	1,000	650	480	460	550	2,000	22,000	15,000	19,000	7,500
23	1,900	1,400	950	650	480	460	600	2,200	24,000	13,000	16,000	8,000
24	1,900	1,400	950	650	480	460	600	2,400	28,000	11,000	15,000	7,500
25	1,900	1,400	950	650	480	460	600	2,800	28,000	13,000	15,000	7,000
26	1,800	1,300	950	650	480	460	600	3,200	28,000	15,000	15,000	6,500
27	1,800	1,300	950	600	480	460	600	3,600	26,000	15,000	15,000	6,000
28	1,800	1,300	950	600	480	460	650	4,200	26,000	17,000	14,000	6,000
29	1,800	1,300	900	600	------	460	650	4,800	26,000	17,000	13,000	5,500
30	1,800	1,300	900	600	------	460	650	5,500	28,000	15,000	12,000	5,500
31	1,800	------	900	600	------	460	------	6,000	------	15,000	12,000	------
TOTAL	66,800	45,900	32,500	22,650	14,090	14,560	15,860	59,350	659,000	562,000	704,000	294,000
MEAN	2,155	1,530	1,048	731	503	470	529	1,915	21,970	18,130	22,710	9,800
MAX	2,800	1,800	1,200	900	550	480	650	6,000	44,000	34,000	55,000	18,000
MIN	1,800	1,300	900	600	480	460	460	700	6,500	11,000	12,000	5,500
AC-FT	132,500	91,040	64,460	44,930	27,950	28,880	31,460	117,700	1,307M	1,115M	1,396M	583,100

CAL YR 1970 TOTAL 1,713,130 MEAN 4,694 MAX 20,100 MIN 420 AC-FT 3,398,000
WTR YR 1971 TOTAL 2,490,710 MEAN 6,824 MAX 55,000 MIN 460 AC-FT 4,940,000

NOTE.--No gage-height record Oct. 1 to Sept. 30.

M.--Expressed in thousands.

15292000 Susitna River at Gold Creek

LOCATION.--Lat 62°46'04", long 149°41'28", in NW¼ sec.20, T.31 N., R.2 W., near left bank under Alaska Railroad bridge, 0.1 mile downstream from Gold Creek, 0.9 mile north of Gold Creek railroad station, and 2.0 miles downstream from Indian River.

DRAINAGE AREA.--6,160 sq mi, approximately.

PERIOD OF RECORD.--August 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 676.50 ft above mean sea level. Prior to June 6, 1957, nonrecording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mile upstream at same datum.

AVERAGE DISCHARGE.--22 years, 9,797 cfs (7,098,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 87,400 cfs Aug. 10 (gage height, 16.36 ft); minimum daily discharge, 950 cfs Mar. 1 to Apr. 5.
Period of record: Maximum discharge, 90,700 cfs June 7, 1964 (gage height, 16.58 ft); maximum gage height observed, 24.48 ft May 10, 1954 (ice jam); minimum discharge not determined.

REMARKS.--Records good except those for the period of no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,620	4,000	2,600	1,800	1,100	950	950	1,400	10,000	38,300	21,900	17,400
2	9,000	4,000	2,600	1,800	1,100	950	950	1,500	10,000	27,800	26,400	22,800
3	7,500	4,000	2,600	1,700	1,100	950	950	1,500	10,000	22,700	30,500	27,000
4	6,500	4,000	2,600	1,700	1,100	950	950	1,600	12,000	21,000	26,500	26,700
5	6,000	4,000	2,600	1,700	1,100	950	950	1,600	16,000	20,700	23,100	24,100
6	6,000	3,800	2,600	1,700	1,100	950	1,000	1,700	22,000	20,300	22,700	22,100
7	6,500	3,800	2,600	1,600	1,100	950	1,000	1,700	30,000	20,500	27,100	19,900
8	6,500	3,800	2,600	1,600	1,100	950	1,000	1,800	34,000	21,000	35,700	17,400
9	6,000	3,800	2,400	1,600	1,100	950	1,000	1,900	36,000	20,700	51,000	16,900
10	6,000	3,800	2,400	1,600	1,100	950	1,000	2,000	50,000	22,100	77,700	16,800
11	6,000	3,600	2,400	1,500	1,000	950	1,000	2,000	59,000	22,400	75,900	16,200
12	5,500	3,600	2,400	1,500	1,000	950	1,000	2,200	66,300	24,000	64,600	14,400
13	5,500	3,600	2,400	1,500	1,000	950	1,000	2,200	51,700	29,600	51,100	13,200
14	5,500	3,600	2,400	1,500	1,000	950	1,000	2,400	41,000	34,500	46,500	12,600
15	5,000	3,400	2,400	1,500	1,000	950	1,000	2,600	34,000	36,700	38,400	12,000
16	5,000	3,400	2,400	1,400	1,000	950	1,100	2,800	28,300	36,100	30,800	11,700
17	4,800	3,400	2,400	1,400	1,000	950	1,100	3,000	24,900	33,600	26,000	11,300
18	4,800	3,200	2,200	1,400	1,000	950	1,100	3,200	24,800	27,800	22,600	10,900
19	4,800	3,200	2,200	1,400	1,000	950	1,100	3,400	24,300	23,600	20,900	10,300
20	4,600	3,200	2,200	1,300	1,000	950	1,100	3,600	25,800	21,300	24,700	10,400
21	4,400	3,000	2,200	1,300	1,000	950	1,100	3,800	29,800	21,800	31,800	11,100
22	4,200	3,000	2,200	1,300	1,000	950	1,200	4,400	34,400	21,700	27,700	11,500
23	4,200	3,000	2,000	1,300	1,000	950	1,200	4,800	36,600	18,700	22,900	11,800
24	4,000	3,000	2,000	1,200	1,000	950	1,200	5,500	41,600	16,000	21,400	11,100
25	4,000	3,000	2,000	1,200	1,000	950	1,200	6,000	42,000	14,500	22,300	10,300
26	4,000	2,800	2,000	1,200	1,000	950	1,200	6,500	39,300	17,000	22,700	9,520
27	4,000	2,800	2,000	1,200	1,000	950	1,200	7,000	38,200	21,400	22,300	9,060
28	4,000	2,800	2,000	1,200	1,000	950	1,300	7,500	37,800	21,400	21,300	8,470
29	4,000	2,800	1,900	1,200	------	950	1,300	8,000	36,400	22,500	18,900	8,160
30	4,000	2,800	1,900	1,200	------	950	1,300	9,000	41,800	21,400	17,000	8,160
31	4,000	------	1,800	1,200	------	950	------	9,500	------	21,300	16,700	------
TOTAL	163,920	102,200	71,000	44,700	29,000	29,450	32,450	116,100	988,000	742,400	989,100	433,270
MEAN	5,288	3,407	2,290	1,442	1,036	950	1,082	3,745	32,930	23,950	31,910	14,440
MAX	9,000	4,000	2,600	1,800	1,100	950	1,300	9,500	66,300	38,300	77,700	27,000
MIN	4,000	2,800	1,800	1,200	1,000	950	950	1,400	10,000	14,500	16,700	8,160
AC-FT	325,100	202,700	140,800	88,660	57,520	58,410	64,360	230,300	1,960M	1,473M	1,962M	859,400

CAL YR 1970 TOTAL 2,947,860 MEAN 8,076 MAX 31,600 MIN 750 AC-FT 5,847,000
WTR YR 1971 TOTAL 3,741,590 MEAN 10,250 MAX 77,700 MIN 950 AC-FT 7,421,000

NOTE.--No gage-height record Oct. 2 to June 9.

M.--Expressed in thousands.

15292400 Chulitna River near Talkeetna

LOCATION.--Lat 62°33'31", long 150°14'02", in SE¼ sec.32, T.29 N., R.5 W., on right bank, 0.5 mile downstream from Anchorage-Fairbanks highway crossing, 4.5 miles downstream from Troublesome Creek, 16 miles northwest of Talkeetna, and 18 miles upstream from mouth.

DRAINAGE AREA.--2,570 sq mi, approximately.

PERIOD OF RECORD.--Feburary 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (from topographic map). Prior to July 29, 1964, at site 4 miles downstream at different datum.

AVERAGE DISCHARGE.--13 years, 8,780 cfs (6,361,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 50,800 cfs Aug. 11 (gage height, 16.21 ft); minimum daily, 900 cfs Mar. 16-25.
Period of record: Maximum discharge, 75,900 cfs July 20, 1967 (gage height, 22.48 ft); minimum not determined.

REMARKS.--Records good except those for the periods of no gage-height record, which are poor. Large diurnal fluctuation at times each year caused by glacier melt. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,000	3,000	1,600	1,200	950	950	950	1,200	10,000	35,700	20,000	15,400
2	5,000	3,000	1,600	1,200	950	950	950	1,300	10,000	29,500	22,000	16,900
3	4,800	3,000	1,500	1,200	950	950	950	1,400	10,000	26,100	24,000	16,300
4	4,800	3,000	1,500	1,200	950	950	950	1,500	11,000	26,100	23,000	16,600
5	4,600	3,000	1,500	1,200	950	950	950	1,600	12,000	25,800	22,000	16,000
6	4,600	2,800	1,500	1,200	950	950	950	1,800	14,000	27,000	22,000	15,700
7	4,600	2,800	1,500	1,200	950	950	950	2,000	16,000	28,800	26,000	15,000
8	4,400	2,800	1,500	1,200	950	950	950	2,200	18,000	29,200	30,000	15,000
9	4,400	2,600	1,500	1,200	950	950	950	2,400	17,000	29,400	36,000	14,000
10	4,400	2,600	1,500	1,200	950	950	950	2,600	19,000	30,800	40,000	14,000
11	4,200	2,400	1,500	1,200	950	950	950	2,800	20,200	32,600	45,000	14,000
12	4,200	2,200	1,400	1,200	950	950	950	3,000	21,900	31,600	37,800	13,000
13	4,000	2,200	1,400	1,200	950	950	950	3,200	20,000	38,600	34,000	12,000
14	4,000	2,000	1,400	1,100	950	950	950	3,400	18,900	42,600	29,700	12,000
15	3,800	2,000	1,400	1,100	950	950	950	3,600	21,200	39,100	26,500	11,000
16	3,800	2,000	1,400	1,100	950	900	1,000	3,800	20,600	35,100	23,400	10,000
17	3,600	2,000	1,400	1,100	950	900	1,000	4,000	18,800	31,600	21,500	9,480
18	3,400	2,000	1,400	1,100	950	900	1,000	4,200	17,700	27,600	20,300	9,600
19	3,400	2,000	1,400	1,100	950	900	1,000	4,400	17,500	26,500	19,700	8,100
20	3,400	1,900	1,300	1,100	950	900	1,000	4,600	17,800	26,600	20,900	8,250
21	3,400	1,800	1,300	1,100	950	900	1,000	4,800	18,900	26,800	20,200	8,920
22	3,200	1,800	1,300	1,100	950	900	1,000	5,200	23,100	24,300	19,700	8,300
23	3,200	1,800	1,300	1,000	950	900	1,000	5,500	24,000	21,400	19,400	7,540
24	3,200	1,700	1,300	1,000	950	900	1,000	6,000	31,400	19,000	20,200	7,080
25	3,200	1,700	1,300	1,000	950	900	1,000	6,500	35,200	18,000	19,400	6,720
26	3,000	1,700	1,300	1,000	950	950	1,000	7,500	37,400	18,900	18,700	6,520
27	3,000	1,700	1,300	1,000	950	950	1,000	8,000	38,900	17,000	17,200	6,500
28	3,000	1,600	1,300	1,000	950	950	1,000	9,000	39,400	19,000	15,500	6,500
29	3,000	1,600	1,300	1,000	------	950	1,100	10,000	41,000	21,000	15,000	6,000
30	3,000	1,600	1,300	1,000	------	950	1,100	11,000	44,500	20,000	14,000	6,000
31	3,000	------	1,300	1,000	------	950	------	10,000	------	20,000	15,000	------
TOTAL	118,600	66,300	43,500	34,500	26,600	28,950	29,450	138,500	665,400	845,700	738,100	332,410
MEAN	3,826	2,210	1,403	1,113	950	934	982	4,468	22,180	27,280	23,810	11,080
MAX	5,000	3,000	1,600	1,200	950	950	1,100	11,000	44,500	42,600	45,000	16,900
MIN	3,000	1,600	1,300	1,000	950	900	950	1,200	10,000	17,000	14,000	6,000
AC-FT	235,200	131,500	86,280	68,430	52,760	57,420	58,410	274,700	1,320M	1,677M	1,464M	659,300

CAL YR 1970 TOTAL 3,177,630 MEAN 8,706 MAX 35,600 MIN 1,100 AC-FT 6,303,000
WTR YR 1971 TOTAL 3,068,010 MEAN 8,406 MAX 45,000 MIN 900 AC-FT 6,085,000

NOTE.--No gage-height record Oct. 1 to June 10 and July 24 to Aug. 11.

M.--Expressed in thousands.

15292700 Talkeetna River near Talkeetna
(Hydrologic bench-mark station)

LOCATION.--Lat 62°20'49", long 150°01'01", in NE¼ sec.16, T.26 N., R.4 W., on left bank 1.7 miles downstream from Chunilna Creek, 3.5 miles northeast of Talkeetna, and about 5 miles above mouth.

DRAINAGE AREA.--2,006 sq mi.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (from topographic map).

AVERAGE DISCHARGE.--7 years, 4,137 cfs (2,997,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 67,400 cfs Aug. 10 (gage height, 16.35 ft); minimum daily, 400 cfs Feb. 25 to Mar. 28.
Period of record: Maximum discharge, 67,400 cfs Aug. 10, 1971 (gage height, 16.35 ft); minimum not determined.

REMARKS.--Records fair except those for the periods of no gage-height record, which are poor. Diurnal fluctuation caused by glacier melt. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,430	2,000	1,300	900	500	400	420	650	4,980	18,600	10,000	7,500
2	5,200	2,000	1,200	900	500	400	420	700	4,750	13,600	12,000	10,000
3	4,080	1,900	1,200	900	500	400	440	700	4,920	11,000	15,000	12,000
4	3,470	1,900	1,200	900	500	400	440	750	5,680	12,000	13,000	11,000
5	3,190	1,900	1,200	850	480	400	440	750	7,940	12,000	11,000	10,000
6	3,380	1,900	1,200	850	480	400	440	800	12,900	11,000	11,000	9,000
7	3,350	1,900	1,200	850	480	400	440	850	18,000	11,000	18,000	8,000
8	3,460	1,900	1,200	800	480	400	440	900	19,700	12,000	28,000	7,500
9	3,260	1,900	1,200	750	480	400	440	950	20,000	11,000	48,000	7,000
10	3,100	1,800	1,200	700	480	400	440	1,000	23,100	11,000	63,000	6,500
11	3,000	1,800	1,100	700	480	400	460	1,100	28,500	12,000	40,300	6,500
12	3,000	1,700	1,100	700	480	400	460	1,200	31,700	12,000	27,200	6,000
13	3,000	1,700	1,100	700	460	400	460	1,300	24,800	14,000	23,500	6,000
14	2,800	1,700	1,100	700	460	400	480	1,400	21,200	17,000	20,800	5,500
15	2,800	1,600	1,100	700	460	400	480	1,500	18,900	18,000	18,000	5,000
16	2,800	1,600	1,100	650	460	400	480	1,600	16,900	17,000	15,000	5,000
17	2,600	1,600	1,100	650	460	400	500	1,700	14,900	15,000	12,000	4,600
18	2,600	1,500	1,100	650	460	400	500	1,800	13,800	13,000	10,000	4,400
19	2,600	1,500	1,100	650	460	400	500	2,040	15,000	11,000	9,000	4,200
20	2,400	1,500	1,100	600	460	400	500	2,340	18,800	10,000	11,000	4,000
21	2,400	1,500	1,100	600	440	400	550	2,480	19,400	11,000	14,000	4,400
22	2,200	1,500	1,100	600	440	400	550	2,840	28,200	11,000	12,000	4,600
23	2,200	1,500	1,100	550	420	400	550	2,920	26,200	10,000	10,000	4,600
24	2,000	1,400	1,000	550	420	400	550	3,260	33,700	8,000	9,000	4,400
25	2,000	1,400	1,000	550	400	400	600	3,660	30,800	7,000	9,000	4,200
26	2,000	1,400	1,000	550	400	400	600	4,350	24,700	8,000	9,000	3,800
27	2,000	1,400	1,000	550	400	400	600	3,900	22,300	9,500	9,000	3,600
28	2,000	1,400	1,000	500	400	400	600	4,220	16,100	9,500	9,000	3,600
29	2,000	1,300	950	500	------	420	650	4,980	19,400	9,500	8,000	3,400
30	2,000	1,300	950	500	------	420	650	4,950	23,900	9,500	7,500	3,400
31	2,000	------	900	500	------	420	------	4,900	------	9,500	7,500	------
TOTAL	87,320	49,400	34,200	21,050	12,840	12,460	15,080	66,490	571,170	364,700	519,800	179,700
MEAN	2,817	1,647	1,103	679	459	402	503	2,145	19,040	11,760	16,770	5,990
MAX	5,200	2,000	1,300	900	500	420	650	4,980	33,700	18,600	63,000	12,000
MIN	2,000	1,300	900	500	400	400	420	650	4,750	7,000	7,500	3,400
AC-FT	173,200	97,980	67,840	41,750	25,470	24,710	29,910	131,900	1,133M	723,400	1,031M	356,400

CAL YR 1970 TOTAL 1,362,340 MEAN 3,732 MAX 17,900 MIN 440 AC-FT 2,702,000
WTR YR 1971 TOTAL 1,934,210 MEAN 5,299 MAX 63,000 MIN 400 AC-FT 3,837,000

NOTE.--No gage-height record Oct. 11 to May 18, July 3 to Aug. 9, Aug. 15 to Sept. 30.

15294300 Skwentna River near Skwentna

LOCATION.--Lat 61°52'23", long 151°22'01", in NW¼ sec.31, T.21 N., R.11 W., on right bank 2 miles downstream from Shell Creek, 8 miles southwest of Skwentna, and 13 miles upstream from mouth.

DRAINAGE AREA.--2,250 sq mi, approximately.

PERIOD OF RECORD.--October 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (from topographic map).

AVERAGE DISCHARGE.--12 years, 6,328 cfs (4,585,000 acre-ft per year). 11 years, 6,273 cfs (4,545,000 acre-ft per year), figure published in Water Resources Data for Alaska, 1970, in error.

EXTREMES.--Current year: Maximum discharge, 50,000 cfs June 25 (gage height, 14.74 ft) from rating curve extended above 27,000 cfs; minimum daily, 600 cfs Mar. 9 to Apr. 26.
Period of record: Maximum discharge, 50,000 cfs June 25, 1971 (gage height, 14.74 ft) from rating curve extended above 27,000 cfs; minimum not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Large diurnal fluctuation at times each year caused by glacier melt.

REVISIONS(WATER YEARS).--WSP 1936: 1960. WRD Alaska 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,520	2,300	1,500	950	800	650	600	650	14,600	36,900	13,100	11,000
2	4,090	2,300	1,500	950	750	650	600	700	13,700	27,200	15,500	10,800
3	3,490	2,300	1,500	900	750	650	600	700	13,100	22,800	16,400	10,200
4	3,200	2,300	1,400	900	750	650	600	750	13,600	22,000	15,600	10,700
5	3,100	2,300	1,400	900	750	650	600	800	16,700	23,000	15,800	11,000
6	3,080	2,300	1,400	900	750	650	600	850	20,400	23,200	17,300	9,660
7	3,120	2,300	1,300	900	750	650	600	850	22,500	23,500	16,100	7,760
8	3,080	2,300	1,300	900	750	650	600	900	22,400	22,200	20,600	6,690
9	3,120	2,200	1,300	900	750	600	600	950	20,400	22,400	22,400	6,170
10	3,080	2,200	1,300	900	750	600	600	1,000	21,400	24,200	26,400	5,850
11	3,100	2,200	1,200	900	750	600	600	1,100	23,200	26,400	29,700	5,570
12	3,100	2,200	1,200	900	750	600	600	1,200	23,500	28,400	25,900	5,260
13	3,000	2,200	1,200	900	750	600	600	1,300	25,000	29,400	22,500	5,120
14	3,000	2,100	1,200	900	750	600	600	1,400	26,800	29,900	19,000	4,980
15	3,000	2,100	1,200	900	750	600	600	1,600	23,000	27,300	16,100	4,840
16	2,900	2,100	1,200	900	700	600	600	1,800	20,400	22,400	14,200	5,820
17	2,900	2,000	1,100	850	700	600	600	2,100	16,900	18,800	13,400	5,930
18	2,900	2,000	1,100	850	700	600	600	2,500	14,200	16,800	14,400	5,040
19	2,800	2,000	1,100	850	700	600	600	3,000	13,900	16,700	14,000	4,660
20	2,800	1,900	1,100	850	700	600	600	4,000	15,800	17,800	15,000	4,980
21	2,700	1,900	1,100	850	700	600	600	5,000	19,500	19,000	14,000	5,150
22	2,700	1,800	1,100	850	700	600	600	6,000	25,000	15,800	14,000	5,150
23	2,600	1,800	1,100	800	700	600	600	8,000	28,600	14,000	13,000	4,450
24	2,500	1,700	1,000	800	700	600	600	10,000	38,300	14,000	13,000	4,000
25	2,500	1,700	1,000	800	650	600	600	12,800	47,000	15,000	13,000	3,670
26	2,400	1,700	1,000	800	650	600	600	17,400	47,500	16,500	12,000	3,430
27	2,400	1,700	1,000	800	650	600	650	20,000	45,800	15,800	11,000	3,100
28	2,400	1,600	1,000	800	650	600	650	21,200	42,900	13,800	11,000	3,000
29	2,300	1,600	1,000	800	------	600	650	19,800	41,500	11,800	10,000	3,220
30	2,300	1,600	950	800	------	600	650	18,100	44,500	10,600	9,000	3,520
31	2,300	------	950	800	------	600	------	18,400	------	11,100	10,000	------
TOTAL	90,480	60,700	36,700	26,800	20,200	19,000	18,200	184,850	762,100	638,700	493,400	180,720
MEAN	2,919	2,023	1,184	865	721	613	607	5,963	25,400	20,600	15,920	6,024
MAX	4,520	2,300	1,500	950	800	650	650	21,200	47,500	36,900	29,700	11,000
MIN	2,300	1,600	950	800	650	600	600	650	13,100	10,600	9,000	3,000
AC-FT	179,500	120,400	72,790	53,160	40,070	37,690	36,100	366,600	1,512M	1,267M	978,700	358,500

CAL YR 1970 TOTAL 2,581,540 MEAN 7,073 MAX 29,300 MIN 650 AC-FT 5,120,000
WTR YR 1971 TOTAL 2,531,850 MEAN 6,937 MAX 47,500 MIN 600 AC-FT 5,022,000

NOTE.--No gage-height record Oct. 11 to May 22.

M.--Expressed in thousands.

15294500 Chakachatna River near Tyonek

LOCATION.--Lat 61°12'44", long 152°21'26", in SE¼ sec.17, T.13 N., R.17 W., on right bank just downstream from outlet of Lake Chakachamna, opposite Barrier Glacier, 19 miles upstream from Straight Creek, and 38 miles northwest of Tyonek.

DRAINAGE AREA.--1,120 sq mi, approximately (includes drainage from Barrier Glacier).

PERIOD OF RECORD.--June 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,125.1 ft above mean sea level (river-profile survey).

AVERAGE DISCHARGE.--12 years, 3,651 cfs (2,645,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 470,000 cfs Aug. 11 (see explanation below); minimum daily, 460 cfs Feb. 11 to Mar. 22. Period of record: Maximum discharge, 470,000 cfs Aug. 11, gage height unknown, determined by field estimate at site 5 miles below gaging station. Discharge was result of sudden release of stored water in Chakachamna Lake when portion of terminus of Barrier Glacier was eroded away; minimum not determined.

REMARKS.--Records poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,370	1,500	1,000	600	480	460	500	1,100	5,500	17,000	8,120	8,000
2	3,250	1,400	1,000	600	480	460	500	1,100	6,000	16,000	8,270	8,000
3	3,090	1,400	1,000	600	480	460	550	1,200	6,500	15,000	8,430	7,500
4	3,010	1,400	1,000	600	480	460	550	1,200	7,000	14,000	8,550	7,000
5	2,880	1,400	1,000	600	480	460	550	1,300	7,000	14,000	8,680	7,000
6	2,800	1,400	1,000	550	480	460	550	1,300	7,500	13,600	9,090	6,500
7	2,720	1,400	950	550	480	460	550	1,400	7,500	13,600	9,780	6,000
8	2,640	1,300	950	550	480	460	550	1,400	8,000	13,700	10,800	5,500
9	2,570	1,300	950	550	480	460	600	1,500	8,000	13,900	13,300	5,500
10	2,500	1,300	900	550	480	460	600	1,500	8,000	14,300	18,100	5,000
11	2,440	1,300	900	550	460	460	600	1,600	8,000	15,100	90,000	5,000
12	2,360	1,300	900	550	460	460	600	1,600	8,500	16,300	50,000	4,800
13	2,320	1,300	900	550	460	460	600	1,700	8,500	17,900	30,000	4,600
14	2,260	1,300	850	550	460	460	650	1,800	9,000	19,200	25,000	4,400
15	2,200	1,200	850	550	460	460	650	1,900	9,000	19,800	20,000	4,200
16	2,110	1,200	850	500	460	460	650	2,000	9,000	19,300	18,000	4,000
17	2,060	1,200	800	500	460	460	650	2,200	9,500	18,400	17,000	3,800
18	1,980	1,200	800	500	460	460	700	2,400	9,500	17,300	16,000	3,800
19	1,930	1,200	800	500	460	460	700	2,400	10,000	16,300	15,000	3,600
20	1,850	1,200	800	500	460	460	700	2,600	11,000	15,700	14,000	3,600
21	1,830	1,200	750	500	460	460	750	2,600	12,000	15,500	14,000	3,400
22	1,820	1,200	750	500	460	460	750	2,800	13,000	14,900	13,000	3,200
23	1,740	1,100	750	500	460	480	800	3,000	14,000	13,900	12,000	3,000
24	1,660	1,100	700	500	460	480	850	3,200	16,000	13,000	12,000	3,000
25	1,630	1,100	700	500	460	480	850	3,400	17,000	12,200	11,000	2,800
26	1,590	1,100	700	500	460	480	900	3,600	18,000	11,400	11,000	2,600
27	1,560	1,100	650	500	460	480	900	3,800	19,000	10,800	10,000	2,600
28	1,530	1,100	650	500	460	480	950	4,200	19,000	10,000	10,000	2,400
29	1,530	1,100	650	500	------	480	1,000	4,400	19,000	9,400	9,500	2,400
30	1,500	1,100	600	500	------	500	1,000	4,600	18,000	8,780	9,000	2,200
31	1,500	------	600	500	------	500	------	5,000	------	8,340	8,500	------
TOTAL	68,230	37,400	25,700	16,500	13,080	14,480	20,750	73,800	328,000	448,620	518,120	135,400
MEAN	2,201	1,247	829	532	467	467	692	2,381	10,930	14,470	16,710	4,513
MAX	3,370	1,500	1,000	600	480	500	1,000	5,000	19,000	19,800	90,000	8,000
MIN	1,500	1,100	600	500	460	460	500	1,100	5,500	8,340	8,120	2,200
AC-FT	135,300	74,180	50,980	32,730	25,940	28,720	41,160	146,400	650,600	889,800	1,028M	268,600

CAL YR 1970 TOTAL 1,083,270 MEAN 2,968 MAX 11,200 MIN 550 AC-FT 2,149,000
WTR YR 1971 TOTAL 1,700,080 MEAN 4,658 MAX 90,000 MIN 460 AC-FT 3,372,000

NOTE.--No gage-height record Nov. 30 to July 5 and Aug. 13 to Sept. 30.

M.--Expressed in thousands.

15296000 Uganik River near Kodiak

LOCATION.--Lat 57°41'29", long 153°25'10", on Kodiak Island, on right bank 0.5 mile upstream from tidewater of East Arm Uganik Bay, 1 mile downstream from Mush Lake Tributary, 4 miles downstream from Uganik Lake, and 40 miles west of Kodiak.

DRAINAGE AREA.--123 sq mi.

PERIOD OF RECORD.--May 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 664 cfs (73.31 inches per year, 481,100 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 5,270 cfs July 13 (gage height, 8.03 ft); minimum daily, 150 cfs many days during January to March.
Period of record: Maximum discharge, 13,700 cfs Oct. 3, 1952 (gage height, 10.65 ft), from rating curve extended above 2,500 cfs; minimum not determined.

REMARKS.--Records good except those for the periods of no gage-height record, which are poor. Records of periodic chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	485	2,500	266	250	150	150	200	400	1,650	2,700	1,410	790
2	478	2,300	250	250	150	150	200	400	1,300	2,230	1,110	752
3	457	2,000	250	250	150	150	200	400	1,100	1,850	1,120	940
4	415	1,800	250	250	150	150	200	400	1,220	1,550	1,140	890
5	400	1,600	250	250	150	150	200	400	1,580	1,600	1,380	752
6	450	1,500	300	250	300	150	200	400	1,580	1,850	2,040	680
7	430	1,600	300	250	300	150	200	400	1,680	2,040	2,120	1,280
8	400	1,900	300	250	300	150	200	400	1,960	2,300	2,320	1,320
9	380	2,200	300	250	300	150	200	400	2,160	2,640	2,900	1,030
10	700	2,280	300	250	300	150	200	400	1,930	2,720	2,190	900
11	600	2,360	350	200	300	150	200	400	1,630	3,320	1,630	830
12	550	1,590	350	200	300	150	200	400	1,580	3,860	1,360	770
13	500	1,150	350	200	300	150	200	400	1,680	4,940	1,130	689
14	450	910	350	200	300	150	200	400	1,960	3,710	1,050	664
15	400	743	350	200	300	150	200	400	1,840	2,340	910	1,040
16	350	632	250	200	300	150	200	400	1,600	1,770	890	1,500
17	320	576	250	200	300	150	200	400	1,560	1,820	780	1,120
18	300	544	250	200	300	150	200	400	1,510	3,010	930	880
19	280	492	250	200	300	150	200	400	1,240	4,400	990	850
20	260	450	240	200	300	150	200	400	1,140	3,070	1,060	850
21	240	408	183	150	300	150	200	400	1,170	2,740	1,000	830
22	220	356	157	150	300	150	200	400	1,360	3,260	800	734
23	210	344	165	150	300	150	200	400	1,510	3,640	840	632
24	200	320	260	150	300	150	200	400	1,690	2,630	840	560
25	200	338	338	150	300	150	200	400	2,060	1,740	716	506
26	1,000	344	300	150	300	150	200	770	2,500	1,420	624	471
27	1,200	344	300	150	300	150	200	790	2,300	1,160	624	429
28	1,200	362	300	150	300	150	200	716	2,110	1,010	1,180	436
29	1,100	338	300	150	------	150	200	698	1,960	980	2,640	520
30	1,100	290	300	150	------	150	200	716	2,590	1,300	1,760	568
31	2,500	------	300	150	------	150	------	979	------	1,620	1,070	------
TOTAL	17,775	32,571	8,659	6,150	7,650	4,650	6,000	14,669	51,150	75,220	40,554	24,213
MEAN	573	1,086	279	198	273	150	200	473	1,705	2,426	1,308	807
MAX	2,500	2,500	350	250	300	150	200	979	2,590	4,940	2,900	1,500
MIN	200	290	157	150	150	150	200	400	1,100	980	624	429
CFSM	4.66	8.83	2.27	1.61	2.22	1.22	1.63	3.85	13.9	19.7	10.6	6.56
IN.	5.38	9.85	2.62	1.86	2.31	1.41	1.81	4.44	15.47	22.75	12.27	7.32
AC-FT	35,260	64,600	17,180	12,200	15,170	9,220	11,900	29,100	101,500	149,200	80,440	48,030

CAL YR 1970 TOTAL 282,950 MEAN 775 MAX 3,480 MIN 80 CFSM 6.30 IN 85.58 AC-FT 561,200
WTR YR 1971 TOTAL 289,261 MEAN 792 MAX 4,940 MIN 150 CFSM 6.44 IN 87.48 AC-FT 573,700

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
7-13	1400	8.03	5,270	7-23	0400	7.57	4,100
7-19	0800	7.77	4,600				

NOTE.--No gage-height record Oct. 5 to Dec. 9, Dec. 26 to May 26.

15297200 Myrtle Creek near Kodiak

LOCATION.--Lat 57°36'16", long 152°24'09", in SW¼ sec.6, T.30 S., R.19 W., on Kodiak Island, on right bank, 0.2 mile upstream from mouth, and 13 miles south of Kodiak.

DRAINAGE AREA.--4.74 sq mi.

RECORDS AVAILABLE.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 45.3 cfs (129.78 inches per year, 32,820 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 694 cfs Aug. 29 (gage height, 4.19 ft); minimum daily, 3 cfs Mar. 9-15, Apr. 19-20.
Period of record: Maximum discharge, 1,110 cfs Sept. 14, 1969 (gage height, 5.02 ft), from rating curve extended above 70 cfs on the basis of slope-area measurements of peak flow; maximum gage height, 8.40 ft Mar. 28, 1964 (tidal wave caused by earthquake); minimum discharge, 1.0 cfs Jan. 31, 1968.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska, 1968: 1966-67 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	78	20	15	6.0	5.0	4.0	16	292	69	24	40
2	19	44	20	14	6.0	5.0	4.0	73	159	77	21	56
3	18	76	22	14	6.0	4.0	4.0	45	121	59	20	67
4	16	42	26	20	6.0	4.0	4.0	38	123	56	18	40
5	16	29	30	50	25	4.0	4.0	36	139	62	17	28
6	18	26	24	60	150	4.0	4.0	28	137	64	17	59
7	16	77	20	50	120	4.0	4.0	20	286	62	16	105
8	15	145	18	40	100	4.0	4.0	16	364	59	16	55
9	52	96	18	30	200	3.0	5.0	14	385	61	14	38
10	32	190	17	24	150	3.0	5.0	32	337	67	13	27
11	27	176	16	18	120	3.0	7.0	28	209	67	13	26
12	23	95	16	17	90	3.0	10	33	151	67	12	23
13	20	62	15	16	110	3.0	6.0	39	155	97	12	20
14	19	65	14	14	110	3.0	5.0	34	131	42	11	23
15	18	64	14	13	100	3.0	4.0	26	127	34	12	100
16	16	51	14	12	80	4.0	4.0	20	235	29	15	79
17	14	44	13	11	50	4.0	3.2	100	242	39	15	46
18	14	39	18	10	35	4.0	3.2	70	117	252	58	39
19	12	35	20	10	25	4.0	3.0	30	79	333	51	44
20	12	32	19	9.0	20	4.0	3.0	50	83	121	37	40
21	11	30	19	9.0	17	4.0	3.8	40	115	150	28	46
22	10	28	19	8.0	15	4.0	5.5	30	111	218	39	38
23	9.8	26	80	8.0	13	4.0	6.5	25	95	209	38	33
24	9.2	25	65	8.0	11	4.0	10	20	101	133	33	28
25	12	24	50	7.0	9.0	4.0	115	250	97	79	29	24
26	21	24	40	7.0	8.0	4.0	69	143	91	52	24	21
27	21	23	30	7.0	7.0	5.0	44	145	85	39	24	20
28	23	21	25	7.0	6.0	5.0	32	167	75	32	90	22
29	30	20	20	7.0	------	4.0	25	125	79	28	301	23
30	32	20	17	6.0	------	4.0	17	179	79	26	99	21
31	102	------	16	6.0	------	4.0	------	443	------	25	56	------
TOTAL	678.0	1,707	755	527.0	1,595.0	121.0	418.2	2,315	4,800	2,708	1,173	1,231
MEAN	21.9	56.9	24.4	17.0	57.0	3.90	13.9	74.7	160	87.4	37.8	41.0
MAX	102	190	80	60	200	5.0	115	443	385	333	301	105
MIN	9.2	20	13	6.0	6.0	3.0	3.0	14	75	25	11	20
CFSM	4.62	12.0	5.15	3.59	12.0	.82	2.93	15.8	33.8	18.4	7.97	8.65
IN.	5.32	13.40	5.93	4.14	12.52	.95	3.28	18.17	37.67	21.25	9.21	9.66
AC-FT	1,340	3,390	1,500	1,050	3,160	240	830	4,590	9,520	5,370	2,330	2,440

CAL YR 1970 TOTAL 15,131.6 MEAN 41.5 MAX 306 MIN 6.0 CFSM 8.76 IN 118.75 AC-FT 30,010
WTR YR 1971 TOTAL 18,028.2 MEAN 49.4 MAX 443 MIN 3.0 CFSM 10.4 IN 141.49 AC-FT 35,760

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-31	1400	4.10	640	8-29	0600	4.19	694
7-19	0100	4.11	646				

NOTE.--No gage-height record Dec. 27 to Apr. 16.

15297640 Limpet Creek on Amchitka Island

LOCATION.--Lat 51°31'31", long 178°58'23"E, on right bank about 1,000 ft above mouth, one mile southwest of AEC hole UA-3 (Site F), and 24 miles northwest of camp headquarters.

DRAINAGE AREA.--1.69 sq mi.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 25.91 ft above mean sea level (levels by Corps of Engineers, 1967).

EXTREMES.--Current year: Maximum discharge, 93 cfs Mar. 18 (gage height, 3.86 ft), from rating curve extended above 17.5 cfs; minimum, 1.2 cfs June 9-12.
Period of record: Maximum discharge, 93 cfs Mar. 18, 1971 (gage height, 3.86 ft); minimum, 1.0 cfs Aug. 31, Sept. 1-3, 24, 1968.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	8.7	8.9	5.4	1.8	1.7	3.8	2.4	1.8	11	1.9	2.7
2	5.9	5.4	6.9	5.4	1.9	3.7	2.9	1.9	1.8	8.8	2.2	2.4
3	3.1	4.7	7.9	5.0	2.0	11	2.1	1.9	1.5	3.5	6.3	2.2
4	2.9	4.3	26	4.8	4.9	18	4.9	1.7	1.4	2.7	3.1	2.1
5	4.3	4.4	13	4.6	14	10	4.9	1.7	1.3	3.7	2.3	2.[illegible]
6	4.7	4.0	8.3	4.5	14	14	3.9	1.8	1.3	8.3	2.2	2.5
7	3.0	3.6	11	4.2	7.3	7.3	4.3	3.0	1.3	6.3	2.1	5.3
8	4.4	3.1	6.4	12	3.8	7.2	18	1.8	1.3	3.3	1.9	2.3
9	3.1	2.9	8.4	7.2	2.9	5.5	7.1	1.6	1.2	2.8	1.8	2.[illegible]
10	5.3	2.9	7.3	16	4.6	4.7	4.5	1.7	1.2	5.8	1.8	1.9
11	5.7	2.8	4.8	40	4.7	3.7	3.4	1.7	1.2	3.5	1.8	1.8
12	4.0	8.8	4.0	26	5.8	3.1	2.7	1.6	1.3	2.9	1.8	1.7
13	3.0	4.9	3.6	13	3.6	2.6	2.4	1.6	6.6	2.7	3.9	1.9
14	3.7	3.7	13	11	2.7	2.4	2.4	1.5	2.0	2.6	3.0	1.7
15	6.4	3.6	7.8	11	2.2	6.2	5.0	1.6	1.6	3.0	4.[illegible]	3.8
16	16	15	12	8.5	2.1	28	3.1	2.3	1.4	2.7	3.2	3.3
17	9.0	5.7	7.2	6.4	1.8	25	2.7	2.0	1.4	2.4	4.0	2.6
18	5.6	3.9	11	5.1	1.8	64	4.5	1.6	1.3	2.2	3.9	3.1
19	10	3.5	29	4.5	1.8	52	4.7	1.5	1.5	2.2	2.9	2.6
20	9.4	3.2	12	3.8	1.8	13	3.0	1.4	1.4	2.1	5.6	2.1
21	7.2	3.0	11	3.3	1.8	6.8	2.4	1.4	11	2.1	3.8	17
22	5.2	3.2	7.6	3.0	1.8	15	2.2	1.6	3.9	2.0	2.6	6.8
23	4.6	3.4	10	2.9	1.6	7.2	1.9	1.4	2.4	1.8	2.5	3.7
24	14	14	11	2.7	1.9	25	1.7	1.4	2.7	1.8	2.4	2.8
25	5.6	16	13	2.6	18	11	1.7	2.1	2.0	1.7	9.6	4.0
26	17	14	13	2.3	12	5.6	1.7	1.6	1.9	2.1	6.5	10
27	11	6.6	7.4	2.3	3.5	3.8	2.8	1.5	2.9	6.1	3.4	5.2
28	6.7	5.2	6.8	2.2	2.1	9.1	2.2	4.3	2.2	3.0	2.7	6.4
29	5.3	4.6	6.4	2.1	------	7.0	3.3	2.0	2.0	2.6	2.5	4.0
30	4.8	8.0	6.0	2.0	------	5.1	6.0	1.7	1.8	2.2	2.6	3.3
31	13	------	5.7	1.9	------	7.6	------	1.6	------	2.0	2.7	------
TOTAL	211.6	177.1	306.4	225.7	128.2	386.3	117.2	56.9	66.6	109.9	100.9	113.1
MEAN	6.83	5.90	9.88	7.28	4.58	12.5	3.91	1.84	2.22	3.55	3.25	3.77
MAX	17	16	29	40	18	64	18	4.3	11	11	9.6	17
MIN	2.9	2.8	3.6	1.9	1.6	1.7	1.7	1.4	1.2	1.7	1.8	1.7
AC-FT	420	351	608	448	254	766	232	113	132	218	200	224

CAL YR 1970 TOTAL 2,101.9 MEAN 5.76 MAX 29 MIN 1.1 AC-FT 4,170
WTR YR 1971 TOTAL 1,999.9 MEAN 5.48 MAX 64 MIN 1.2 AC-FT 3,970

15297650 Falls Creek on Amchitka Island

LOCATION.--Lat 51°30'00", long 179°01'00"E, on left bank about 600 ft above mouth, about 1 mile southwest of AEC hole UA-6 (Site D), and about 20 miles northwest of camp headquarters.

DRAINAGE AREA.--0.86 sq mi.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Cipolletti weir installed June 30, 1970. Altitude of gage is 40 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 16 cfs Mar. 24 (gage height, 3.60 ft); minimum, 0.77 cfs June 11, 12.
Period of record: Maximum discharge, 24 cfs Jan. 11, Aug. 26, 1969 (gage height, 1.52 ft); maximum gage height, 3.88 ft Aug. 23, 1970; minimum discharge, 0.19 cfs June 20-27, 1968.

REMARKS.--Records good except those for the period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	3.0	3.0	1.4	1.2	1.6	2.2	1.7	.97	3.4	.93	1.2
2	2.0	2.0	2.5	1.3	1.2	2.1	1.9	1.5	.96	3.2	.97	1.1
3	1.2	1.9	3.0	1.2	1.4	3.5	1.5	1.4	.88	1.8	1.9	1.0
4	1.2	1.8	5.0	1.1	2.2	6.7	2.2	1.4	.85	1.3	1.3	1.0
5	1.7	1.7	4.0	1.0	4.7	4.4	2.4	1.3	.84	1.3	1.1	.98
6	1.6	1.6	1.0	1.5	4.8	5.7	2.1	1.4	.81	2.5	1.0	1.0
7	1.2	1.5	3.0	2.4	3.1	4.0	2.1	1.8	.81	2.1	.97	1.6
8	1.7	1.4	1.5	3.5	2.5	3.7	5.6	1.4	.81	1.4	.96	1.1
9	1.2	1.3	2.5	2.0	2.0	3.3	3.1	1.3	.81	1.2	.93	1.0
10	1.8	1.3	2.1	4.0	2.4	2.7	2.5	1.3	.81	1.8	.92	.98
11	2.2	1.2	1.9	9.0	2.4	2.8	2.0	1.3	.77	1.4	.89	.97
12	1.6	3.0	1.7	6.0	2.5	2.4	1.7	1.3	.77	1.2	.89	1.0
13	1.2	2.0	1.5	4.0	2.1	2.1	1.6	1.1	2.1	1.2	1.3	1.1
14	1.3	1.5	4.5	4.5	1.7	1.9	1.6	.93	1.0	1.1	1.2	1.1
15	2.0	1.2	1.5	3.5	1.5	1.9	2.5	.94	.90	1.2	1.3	2.0
16	4.6	4.0	4.0	3.0	1.5	1.9	2.0	1.1	.85	1.2	1.2	2.1
17	3.0	3.0	1.5	2.8	1.4	2.2	1.7	1.1	.81	1.1	1.4	1.6
18	2.3	2.5	3.0	2.5	1.4	2.7	2.2	.93	.81	1.1	1.4	1.7
19	3.2	1.7	7.0	2.2	1.3	1.5	2.3	.89	.83	1.0	1.1	1.5
20	3.1	1.4	4.5	2.0	1.3	1.4	1.9	.89	.81	1.0	1.5	1.2
21	2.5	1.2	2.5	1.8	1.3	3.0	1.7	.88	3.2	1.0	1.4	5.9
22	1.8	1.7	1.5	1.6	1.3	4.9	1.6	.95	1.7	1.0	1.1	3.4
23	2.3	2.4	1.9	1.6	1.3	3.7	1.5	.89	1.2	.96	1.0	2.6
24	4.2	3.5	2.3	1.5	1.5	8.4	1.4	.88	1.2	.93	1.0	2.0
25	2.0	4.5	2.9	1.5	5.7	4.8	1.4	1.0	1.0	.93	2.7	2.3
26	5.0	3.0	4.0	1.4	5.8	3.0	1.4	.92	.95	.99	2.1	4.1
27	3.5	2.5	1.7	1.4	2.9	2.3	1.7	.90	1.2	1.9	1.5	2.8
28	3.0	2.1	1.2	1.4	2.2	3.7	1.5	1.8	1.0	1.3	1.2	2.8
29	2.5	1.8	1.3	1.3	------	3.1	2.1	1.1	.96	1.2	1.1	2.1
30	2.0	2.3	1.4	1.3	------	2.7	2.6	.95	.91	1.0	1.1	1.9
31	4.0	------	1.5	1.3	------	2.9	------	.92	------	.96	1.2	------
TOTAL	73.3	64.0	80.9	75.0	64.6	101.0	62.0	36.17	31.52	43.67	38.56	55.13
MEAN	2.36	2.13	2.61	2.42	2.31	3.26	2.07	1.17	1.05	1.41	1.24	1.84
MAX	5.0	4.5	7.0	9.0	5.8	8.4	5.6	1.8	3.2	3.4	2.7	5.9
MIN	1.2	1.2	1.0	1.0	1.2	1.4	1.4	.88	.77	.93	.89	.97
AC-FT	145	127	160	149	128	200	123	72	63	87	76	109

CAL YR 1970 TOTAL 769.69 MEAN 2.11 MAX 11 MIN .45 AC-FT 1,530
WTR YR 1971 TOTAL 725.85 MEAN 1.99 MAX 9.0 MIN .77 AC-FT 1,440

NOTE.--No gage-height record Oct. 25 to Jan. 15.

15297655 Clevenger Creek on Amchitka Island

LOCATION.--Lat 51°24'34", long 179°11'00"E, on right bank about 0.75 mile above mouth, 0.5 mile south of AEC hole UA-1 (Site B), and about 6 miles northwest of camp headquarters.

DRAINAGE AREA.--0.28 sq mi.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Cipolletti weir installed June 27, 1970. Altitude of gage is 70 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 17 cfs Mar. 24 (gage height, 4.29 ft); minimum, 0.19 cfs June 10-12.
Period of record: Maximum discharge recorded, 18 cfs Aug. 10, 1969 (gage height, 4.19 ft); maximum gage height, 4.29 ft Mar. 24, 1971; no flow July 1-15, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.82	1.5	1.7	1.0	.39	.52	.94	.63	.30	.68	.34	.41
2	.91	1.0	1.7	.87	.39	.61	.77	.53	.29	.99	.33	.39
3	.56	.82	2.3	.73	.41	1.0	.59	.49	.28	.60	.41	.36
4	.49	.69	4.8	.64	.55	2.8	.95	.45	.28	.49	.41	.38
5	.60	.64	2.6	.56	1.4	1.8	.94	.41	.25	.49	.38	.38
6	.64	.56	1.6	.82	1.6	2.3	.79	.40	.25	1.1	.34	.37
7	.49	.60	2.7	2.4	1.3	1.7	.78	.47	.25	1.1	.32	.67
8	.49	.53	1.5	4.5	1.0	1.6	2.8	.41	.25	.67	.31	.50
9	.42	.42	1.7	2.3	.84	1.6	1.4	.37	.21	.53	.28	.44
10	.56	.39	1.7	5.7	1.0	1.4	1.0	.35	.19	.77	.28	.40
11	.64	.39	1.1	11	.91	1.2	.76	.34	.19	.60	.28	.36
12	.46	1.1	.87	4.9	.90	.85	.64	.32	.19	.51	.28	.35
13	.42	.82	.73	2.8	.84	.77	.58	.32	.43	.45	.35	.32
14	.39	.69	2.1	3.0	.61	.75	.53	.32	.32	.42	.37	.32
15	.73	.60	1.8	3.0	.55	.75	.92	.31	.28	.42	.37	.46
16	3.6	2.8	3.8	2.3	.49	1.2	.77	.33	.28	.41	.38	.58
17	1.6	1.4	1.7	1.6	.46	1.6	.65	.32	.25	.37	.41	.49
18	1.1	.91	1.5	1.4	.42	4.5	.88	.31	.25	.35	.44	.46
19	2.1	.73	8.0	1.2	.42	1.2	.99	.28	.25	.35	.39	.44
20	1.8	.60	3.4	1.0	.41	.91	.87	.28	.25	.32	.58	.40
21	1.3	.53	2.7	.79	.37	4.0	.68	.29	.77	.32	.56	3.2
22	.91	.49	1.7	.68	.35	6.8	.59	.28	.62	.32	.45	1.5
23	1.2	.49	2.7	.60	.33	2.4	.51	.28	.47	.30	.40	.91
24	2.4	2.3	3.1	.56	.39	7.3	.46	.27	.44	.28	.37	.67
25	1.2	3.0	3.2	.53	1.5	2.8	.42	.27	.38	.28	1.1	.69
26	3.5	3.0	3.2	.50	1.3	1.6	.42	.27	.35	.28	1.1	1.4
27	2.3	1.6	1.8	.47	.85	1.2	.46	.25	.35	.57	.67	1.0
28	1.3	1.1	5.0	.46	.63	1.9	.47	.41	.32	.51	.54	.93
29	.96	.82	3.8	.43	------	1.7	.73	.32	.32	.45	.47	.74
30	.78	1.1	2.0	.42	------	1.3	1.1	.30	.29	.39	.43	.62
31	1.7	------	1.2	.42	------	1.3	------	.28	------	.35	.41	------
TOTAL	36.37	31.62	77.70	57.58	20.61	61.36	24.39	10.86	9.55	15.67	13.75	20.14
MEAN	1.17	1.05	2.51	1.86	.74	1.98	.81	.35	.32	.51	.44	.67
MAX	3.6	3.0	8.0	11	1.6	7.3	2.8	.63	.77	1.1	1.1	3.2
MIN	.39	.39	.73	.42	.33	.52	.42	.25	.19	.28	.28	.32
AC-FT	72	63	154	114	41	122	48	22	19	31	27	40

CAL YR 1970 TOTAL 383.37 MEAN 1.05 MAX 8.0 MIN 0 AC-FT 760
WTR YR 1971 TOTAL 379.60 MEAN 1.04 MAX 11 MIN .19 AC-FT 753

15297660 Constantine Spring on Amchitka Island

LOCATION.--Lat 51°22'52", long 179°14'58"E, on right bank about 50 ft downstream from small reservoir, 0.4 mile upstream from mouth at Clevenger Lake, and 0.6 mile north of camp headquarters.

DRAINAGE AREA.--0.01 sq mi, surface area. Ground-water drainage boundaries may deviate considerably from the topographic surface divide.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Water-stage recorder and Parshall flume. Datum of gage is 91.10 ft above mean sea level (Corps of Engineers, 1967).

EXTREMES.--Current year: Maximum discharge, 1.3 cfs Jan. 11 (gage height, 1.19 ft); minimum, 0.06 cfs for parts of many days during July to September.
Period of record: Maximum discharge, 1.3 cfs Jan. 11, 1971 (gage height, 1.19 ft); minimum, 0.06 cfs for parts of many days during July to September 1971.

REMARKS.--Records good. There is storage and diversion from the stream for domestic supply directly upstream from the gage. Records of discharge represent net flow remaining after diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.79	.78	.86	.63	.52	.76	.51	.31	.27	.27	.26
2	.43	.77	.77	.82	.61	.51	.73	.50	.32	.28	.28	.25
3	.42	.74	.81	.79	.59	.52	.71	.49	.31	.30	.27	.26
4	.43	.72	.90	.78	.58	.61	.69	.47	.30	.29	.27	.26
5	.44	.70	.90	.76	.59	.63	.69	.46	.29	.30	.28	.26
6	.44	.67	.89	.77	.62	.66	.67	.46	.29	.32	.27	.25
7	.43	.66	.90	.78	.65	.69	.66	.45	.29	.35	.26	.26
8	.44	.63	.88	.84	.65	.70	.73	.43	.27	.34	.26	.27
9	.42	.61	.85	.86	.63	.70	.73	.42	.28	.34	.25	.26
10	.42	.58	.87	.99	.63	.68	.70	.43	.27	.34	.25	.27
11	.45	.57	.84	1.3	.64	.67	.68	.42	.26	.34	.24	.26
12	.45	.58	.83	1.2	.64	.66	.66	.41	.27	.34	.25	.25
13	.43	.59	.79	1.2	.63	.65	.64	.40	.26	.34	.25	.25
14	.42	.60	.80	1.1	.62	.64	.62	.39	.26	.34	.25	.26
15	.44	.62	.81	1.1	.61	.62	.62	.38	.26	.33	.24	.26
16	.57	.69	.88	1.1	.60	.61	.63	.37	.24	.32	.24	.26
17	.61	.69	.85	1.0	.58	.58	.60	.38	.23	.32	.24	.27
18	.60	.67	.83	1.0	.58	.58	.58	.38	.24	.32	.21	.27
19	.65	.65	1.0	.98	.56	.55	.60	.37	.23	.31	.25	.28
20	.67	.64	1.0	.95	.54	.55	.58	.32	.25	.32	.25	.28
21	.68	.62	.96	.92	.53	.60	.57	.36	.27	.32	.25	.34
22	.66	.61	.95	.88	.52	.70	.56	.35	.27	.30	.25	.38
23	.67	.59	.95	.85	.50	.71	.56	.34	.27	.29	.25	.38
24	.72	.64	.98	.81	.49	.80	.53	.34	.27	.29	.23	.38
25	.71	.74	.99	.80	.51	.83	.51	.34	.27	.30	.25	.38
26	.78	.81	1.0	.77	.53	.81	.51	.33	.27	.30	.27	.40
27	.82	.78	1.0	.74	.53	.79	.50	.33	.26	.30	.28	.43
28	.80	.76	.99	.72	.52	.79	.50	.34	.26	.30	.28	.44
29	.76	.74	.95	.66	------	.80	.49	.33	.26	.29	.26	.43
30	.74	.73	.91	.65	------	.79	.51	.33	.25	.28	.27	.43
31	.77	------	.85	.64	------	.78	------	.31	------	.29	.27	------
TOTAL	17.69	20.19	27.71	27.62	16.31	20.73	18.52	12.14	8.08	9.67	7.94	9.23
MEAN	.57	.67	.89	.89	.58	.67	.62	.39	.27	.31	.26	.31
MAX	.82	.81	1.0	1.3	.65	.83	.76	.51	.32	.35	.28	.44
MIN	.42	.57	.77	.64	.49	.51	.49	.31	.23	.27	.21	.25
AC-FT	35	40	55	55	32	41	37	24	16	19	16	18

CAL YR 1970 TOTAL 214.01 MEAN .59 MAX 1.1 MIN .22 AC-FT 424
WTR YR 1971 TOTAL 195.83 MEAN .54 MAX 1.3 MIN .21 AC-FT 388

15297680 Bridge Creek on Amchitka Island

LOCATION.--Lat 51°26'54", long 179°10'57"E, on left bank, 10 ft upstream from 54-inch steel culvert, 0.2 mile upstream from mouth, and 7.2 miles northwest of camp headquarters on Infantry Road.

DRAINAGE AREA.--3.03 sq mi.

PERIOD OF RECORD.--November 1967 to current year.

GAGE.--Water-stage recorder, crest-stage gage and culvert control. Cipolletti weir installed June 29, 1970. Datum of gage is 19.49 ft above mean sea level (Corps of Engineers, November 1967).

EXTREMES.--Current year: Maximum discharge recorded, 64 cfs Mar. 24 (gage height, 4.52 ft); minimum 0.25 cfs June 12, 21.
Period of record: Maximum discharge, 71 cfs Aug. 5, 1970 (gage height, 4.81 ft); minimum, 0.25 cfs June 12, 21, 1971.

REMARKS.--Records good except those for the periods of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WRD Alaska, 1970: 1968 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.0	8.0	3.8	.91	1.3	3.1	1.2	.60	8.7	.62	.74
2	5.0	5.1	7.0	2.6	1.2	3.0	2.2	.87	.54	8.3	.60	.70
3	2.5	3.4	5.0	2.2	1.0	7.0	1.5	.75	.40	1.7	.74	.60
4	2.7	3.0	9.0	2.0	2.4	16	4.8	.64	.34	.95	.90	.56
5	5.8	3.1	20	2.0	12	9.9	5.3	.58	.29	2.1	.78	.54
6	4.3	2.4	10	3.2	8.8	13	3.1	.63	.28	8.0	.68	.50
7	2.2	1.9	5.0	4.5	5.8	7.0	3.2	1.1	.27	5.7	.60	3.0
8	4.1	1.5	9.0	10	4.5	6.9	19	.59	.27	1.6	.52	2.2
9	2.2	1.4	6.0	7.0	3.3	8.0	6.0	.49	.27	1.0	.48	1.6
10	5.0	1.4	8.0	10	5.7	5.8	3.2	.49	.26	5.6	.42	1.2
11	3.7	1.3	6.0	35	4.3	4.6	2.5	.49	.26	3.5	.38	1.1
12	2.2	9.6	4.0	15	4.1	2.9	1.7	.42	.25	2.2	.35	.99
13	1.6	3.8	2.5	10	3.5	2.1	1.4	.42	4.5	1.5	.39	.94
14	2.3	3.2	15	15	2.0	2.1	1.2	.41	.60	1.1	.42	.92
15	6.3	3.5	6.0	10	1.5	2.3	7.8	.37	.34	.96	.45	5.3
16	21	19	10	8.0	1.3	22	3.0	.67	.29	.86	.50	4.5
17	6.5	5.1	6.0	6.4	1.1	20	1.5	.55	.28	.78	.56	2.2
18	5.3	2.9	11	4.9	.90	28	4.7	.40	.27	.70	.60	1.8
19	11	2.3	30	4.0	.80	35	5.6	.35	.26	.62	.50	1.7
20	10	2.0	8.0	3.1	.77	34	2.4	.29	.26	.58	.80	1.3
21	5.6	1.9	6.0	2.6	.74	33	1.2	.36	.25	.52	.70	20
22	3.7	2.1	5.0	2.1	.72	32	.90	.41	2.3	.46	.60	7.0
23	7.1	2.3	6.0	1.9	.70	7.5	.80	.33	.85	.43	.54	3.1
24	12	18	8.0	1.8	1.5	27	.68	.32	1.3	.40	.50	2.1
25	4.3	17	11	1.6	15	10	.64	.46	.62	.37	5.0	2.8
26	20	15	15	1.3	8.8	4.9	.64	.34	.51	.35	3.0	11
27	8.6	4.9	7.0	1.2	3.2	3.3	1.3	.31	1.1	1.0	2.3	4.5
28	4.8	3.4	5.0	1.2	1.8	9.9	.90	2.5	.62	.88	1.6	5.8
29	3.9	2.9	6.0	1.1	------	7.2	3.4	.54	.51	.80	1.1	3.1
30	3.6	7.0	6.5	1.1	------	4.7	5.3	.40	.42	.74	.90	2.0
31	13	------	5.5	.99	------	6.3	------	.36	------	.66	.80	------
TOTAL	197.4	157.4	266.5	175.59	98.34	376.7	98.96	18.04	19.31	63.06	28.33	93.79
MEAN	6.37	5.25	8.60	5.66	3.51	12.2	3.30	.58	.64	2.03	.91	3.13
MAX	21	19	30	35	15	35	19	2.5	4.5	8.7	5.0	20
MIN	1.6	1.3	2.5	.99	.70	1.3	.64	.29	.25	.35	.35	.50
AC-FT	392	312	529	348	195	747	196	36	38	125	56	186

CAL YR 1970 TOTAL 1,812.69 MEAN 4.97 MAX 30 MIN .42 AC-FT 3,600
WTR YR 1971 TOTAL 1,593.42 MEAN 4.37 MAX 35 MIN .25 AC-FT 3,160

NOTE.--No gage-height record Dec. 1 to Jan. 16, July 11 to Sept. 11.

15297690 White Alice Creek on Amchitka Island

LOCATION.--Lat 51°28'39", long 179°07'29"E, on left bank about 900 ft above mouth, 0.75 mile northeast of AEC hole UA-2 (Site C), and about 11 miles northwest of camp headquarters.

DRAINAGE AREA.--0.79 sq mi.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Cipolletti weir installed Aug. 24, 1970. Altitude of gage is 80 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 27 cfs Sept. 21 (gage height, 4.30 ft); minimum, 1.2 cfs June 11, 20.
Period of record: Maximum discharge, 96 cfs Aug. 5, 1970 (gage height, 2.80 ft), from rating curve extended above 34 cfs; maximum gage height, 4.30 ft Sept. 21, 1971; minimum discharge, 0.47 cfs June 2-8, 28, 29, 1968.

REMARKS.--Records good except those for the periods of no gage-height record, which are fair. An undetermined amount of water may have been pumped from the stream and used for drilling operations about 1 mile upstream from the gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	4.0	5.3	2.9	1.4	1.4	3.5	3.5	1.4	5.9	1.7	2.3
2	3.3	2.5	4.4	2.0	1.4	1.9	2.5	3.1	1.4	4.8	1.5	2.2
3	1.8	2.4	5.3	1.9	1.5	3.9	2.0	2.8	1.3	1.5	2.5	2.0
4	1.8	2.3	10	1.8	2.5	8.4	2.7	2.5	1.3	1.3	2.1	2.0
5	3.4	2.3	5.6	1.8	6.8	5.2	3.5	2.3	1.3	1.4	1.9	2.0
6	3.2	2.0	3.4	2.5	6.1	7.0	3.3	2.0	1.3	3.9	1.8	2.4
7	1.8	1.8	6.0	6.1	3.7	3.7	3.0	3.0	1.3	3.2	1.6	3.0
8	2.3	1.7	3.0	7.3	2.7	4.1	8.0	2.6	1.3	1.5	1.6	2.6
9	1.7	1.6	5.2	4.7	2.0	3.7	7.0	2.5	1.3	1.3	1.5	2.4
10	2.9	1.6	4.0	10	3.3	3.0	4.5	2.2	1.3	2.8	1.5	2.1
11	2.7	1.5	2.8	21	3.3	2.3	3.2	2.0	1.2	2.6	1.5	1.9
12	1.9	5.2	2.5	9.5	3.6	1.9	2.3	1.8	1.3	2.5	1.5	1.7
13	1.6	2.5	2.1	6.5	2.5	1.8	1.9	1.7	3.4	2.3	1.6	1.5
14	1.8	2.1	7.8	7.2	1.8	1.8	1.5	1.5	1.5	2.1	1.8	2.0
15	3.3	2.0	4.1	6.7	1.6	1.8	3.5	1.4	1.3	2.0	2.0	2.9
16	9.2	9.2	7.4	4.9	1.5	2.4	2.5	1.5	1.3	2.0	2.1	2.9
17	3.2	2.9	3.8	3.6	1.5	5.4	2.0	1.4	1.3	2.0	2.3	1.7
18	2.2	2.4	4.0	3.0	1.5	10	2.7	1.3	1.3	1.9	3.3	1.6
19	5.3	2.2	15	2.7	1.7	6.0	3.5	1.3	1.3	1.8	3.4	1.5
20	4.7	2.0	4.9	2.4	1.9	4.5	3.6	1.3	1.2	1.7	3.5	1.3
21	3.2	1.8	4.4	2.2	1.9	9.0	2.8	1.4	5.9	1.7	3.5	8.2
22	2.3	1.7	3.2	1.9	1.8	15	2.5	1.3	2.5	1.6	3.0	2.2
23	3.2	1.9	4.9	1.8	1.8	7.2	2.3	1.3	1.6	1.6	2.5	2.4
24	5.5	8.5	6.6	1.8	1.8	16	2.1	1.3	2.1	1.5	3.0	1.7
25	2.4	8.5	7.1	1.8	8.4	8.0	2.0	1.4	1.6	1.5	4.0	1.9
26	9.2	7.1	7.4	1.8	5.2	4.5	2.2	1.3	1.4	1.5	4.1	5.4
27	4.4	2.9	3.9	1.6	2.2	3.5	2.6	1.3	1.7	3.0	3.8	2.5
28	2.7	2.5	3.0	1.6	1.6	6.0	3.0	2.3	1.5	2.7	3.4	2.8
29	2.4	2.5	3.3	1.6	------	5.4	3.5	1.5	1.4	2.3	3.1	1.9
30	2.3	4.7	3.3	1.5	------	5.0	4.0	1.4	1.4	2.1	2.7	1.6
31	6.9	------	3.3	1.5	------	4.5	------	1.3	------	1.9	2.5	------
TOTAL	106.2	96.3	157.0	127.6	77.0	164.3	93.7	57.5	49.4	69.9	76.3	72.6
MEAN	3.43	3.21	5.06	4.12	2.75	5.30	3.12	1.85	1.65	2.25	2.46	2.42
MAX	9.2	9.2	15	21	8.4	16	8.0	3.5	5.9	5.9	4.1	8.2
MIN	1.6	1.5	2.1	1.5	1.4	1.4	1.5	1.3	1.2	1.3	1.5	1.3
AC-FT	211	191	311	253	153	326	186	114	98	139	151	144

CAL YR 1970 TOTAL 1,100.50 MEAN 3.02 MAX 42 MIN .58 AC-FT 2,180
WTR YR 1971 TOTAL 1,147.80 MEAN 3.14 MAX 21 MIN 1.2 AC-FT 2,280

NOTE.--No gage-height record Mar. 20 to May 14, July 11 to Sept. 10.

15297767 Lake Creek at Shemya Air Force Base

LOCATION.--Lat 52°42'56", long 174°05'39"E., on Shemya Island, on right bank 100 ft upstream from culvert under south side road, 150 ft from mouth on Pacific Ocean, and 0.1 mile south of the west end of the main runway.

DRAINAGE AREA.--1.0 sq mi, approximately.

PERIOD OF RECORD.--December 1970 to September 30, 1971.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 15 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 10.2 cfs Mar. 6 (gage height, 1.24 ft); maximum gage height, 1.33 ft Jan. 11 (backwater from tide and culvert constriction); minimum daily discharge, 0.30 cfs June 4-10, but may have been less during period of ice effect Mar. 16.

REMARKS.--Records good. Discharge affected by storage in system of three lakes in the basin. Records of periodic chemical analyses for the period are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			4.0	1.8	1.1	1.6	2.0	.82	.42	1.4	.65	1.9
2			3.6	1.8	1.1	1.7	1.8	.82	.42	2.4	.65	1.8
3			3.9	1.7	1.0	3.8	1.6	.82	.36	1.8	.65	1.5
4			4.5	1.7	.94	8.0	1.7	.76	.30	1.4	.59	1.2
5			4.7	1.7	1.1	7.3	1.7	.76	.30	1.2	.59	1.1
6			4.0	2.0	1.6	9.6	1.6	.76	.30	1.8	.54	1.0
7			4.9	2.4	2.6	7.2	1.9	.71	.30	4.6	.54	1.0
8			4.3	2.5	2.6	4.7	5.6	.65	.30	3.4	.54	.94
9			3.5	2.6	1.9	3.6	5.2	.65	.30	2.3	.54	.88
10			3.1	2.5	1.8	2.7	3.5	.59	.30	2.0	.48	.82
11			2.6	4.9	2.5	2.4	2.5	.59	.36	2.5	.48	.76
12			2.0	9.0	3.3	2.1	1.9	.59	.59	2.6	.48	.71
13			1.9	6.8	2.8	1.8	1.7	.59	1.4	2.0	.54	.65
14			2.6	4.3	2.2	1.6	1.4	.65	1.6	1.6	.54	.65
15			3.4	3.1	1.6	1.5	1.5	.65	1.3	1.5	.54	.76
16			2.8	2.5	1.4	1.4	1.4	.71	1.0	1.4	.54	.94
17			2.2	2.1	1.4	1.3	1.4	.71	.88	1.2	.59	1.1
18			2.4	1.8	1.4	1.2	1.4	.65	.82	1.1	.76	1.1
19			2.7	1.6	1.4	1.2	2.0	.59	.82	1.0	1.2	1.1
20			2.3	1.4	1.4	2.0	2.0	.54	.82	.94	7.5	.94
21			1.9	1.3	1.4	4.6	1.6	.48	.76	.88	6.0	1.7
22			1.6	1.2	1.4	4.9	1.4	.54	.71	.82	3.4	2.3
23			1.7	1.2	1.4	3.8	1.4	.48	.65	.71	2.2	1.8
24			2.1	1.2	1.4	3.0	1.2	.42	.59	.65	1.8	1.5
25			2.2	1.1	3.4	2.6	1.1	.65	.59	.65	1.4	1.3
26			2.0	1.1	3.6	2.1	1.0	.88	.54	.65	1.2	1.3
27			1.8	1.1	2.6	1.6	1.1	.82	.48	.65	1.1	2.3
28			1.8	1.1	2.0	2.0	1.1	.76	.48	.82	1.1	8.4
29			1.7	1.1	------	2.4	1.1	.59	.42	.76	1.0	7.5
30			1.7	1.1	------	2.2	1.0	.54	.36	.65	.94	4.3
31		------	1.7	1.1	------	2.1	------	.48	------	.65	1.1	------
TOTAL			85.6	70.8	52.34	98.0	55.8	20.25	18.47	46.03	40.18	53.25
MEAN			2.76	2.28	1.87	3.16	1.86	.65	.62	1.48	1.30	1.78
MAX			4.9	9.0	3.6	9.6	5.6	.88	1.6	4.6	7.5	8.4
MIN			1.6	1.1	.94	1.2	1.0	.42	.30	.65	.48	.65
AC-FT			170	140	104	194	111	40	37	91	80	106

15297771 Gallery Spring at Sheyma Air Force Base

LOCATION --Lat 52°43'06", long 174°07'10"E., on Shemya Island, on left bank 50 ft east of the Base gallery well, 5 ft upstream from Gallery Creek, and 0.2 mile north of the airport terminal.

DRAINAGE AREA.--0.00054 sq mi (0.34 acre), surface area. Ground-water drainage boundaries may deviate considerably from the topographic surface divide.

PERIOD OF RECORD.--November 1970 to September 1971.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 100 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 1.6 cfs Aug. 20 (gage height, 0.93 ft); no flow for part of Jan. 29 and possibly during periods of no gage-height record, Jan. 8-10 and May 8, 9.

REMARKS.--Records good. There is diversion from the stream for domestic supply directly upstream from the gage. Records of discharge represent net flow remaining after diversion. Records of periodic chemical analyses for the period of record are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			.84	.29	.07	.33	.47	.29	.13	.12	.16	.30
2			.82	.28	.05	.32	.45	.28	.13	.22	.15	.32
3			.84	.25	.05	.48	.43	.26	.11	.24	.14	.30
4			.84	.24	.05	.64	.40	.25	.10	.22	.13	.28
5			.86	.24	.04	.86	.38	.25	.09	.21	.12	.26
6			.86	.24	.07	1.0	.36	.24	.09	.30	.12	.25
7			.88	.24	.10	1.1	.40	.22	.09	.40	.11	.24
8			.88	.16	.04	1.1	.54	.08	.08	.47	.11	.22
9			.84	.01	.17	1.0	.62	.04	.08	.47	.10	.21
10			.80	.05	.12	.91	.66	.18	.07	.45	.10	.20
11			.74	.22	.20	.82	.64	.20	.06	.48	.09	.18
12			.70	.50	.10	.76	.58	.17	.06	.50	.10	.18
13			.64	.47	.21	.70	.54	.16	.11	.48	.09	.17
14			.62	.47	.15	.64	.50	.15	.14	.48	.09	.16
15			.66	.45	.14	.58	.47	.14	.13	.45	.09	.16
16			.64	.42	.12	.52	.42	.14	.13	.40	.08	.17
17			.66	.38	.10	.47	.40	.13	.11	.38	.08	.18
18			.62	.30	.09	.43	.40	.13	.10	.35	.10	.17
19			.64	.26	.15	.40	.40	.13	.13	.33	.21	.16
20			.54	.24	.21	.40	.40	.13	.13	.30	.64	.17
21			.64	.20	.24	.47	.40	.13	.13	.29	.58	.24
22			.58	.16	.22	.50	.40	.13	.13	.26	.62	.29
23			.48	.15	.21	.50	.38	.12	.11	.26	.58	.29
24			.15	.13	.24	.62	.36	.12	.10	.24	.52	.29
25			.16	.12	.30	.58	.35	.12	.09	.21	.48	.26
26			.18	.11	.35	.54	.33	.14	.08	.20	.41	.33
27			.17	.10	.36	.50	.32	.14	.08	.18	.16	.47
28			.32	.10	.35	.48	.32	.14	.07	.18	.12	.80
29			.33	.06	------	.50	.32	.14	.07	.18	.21	.80
30			.32	.09	------	.50	.30	.14	.06	.17	.29	.76
31		------	.30	.09	------	.48	------	.13	------	.16	.29	------
TOTAL			18.55	7.02	4.50	19.13	12.94	5.02	2.99	9.58	7.07	8.81
MEAN			.60	.23	.16	.62	.43	.16	.10	.31	.23	.29
MAX			.88	.50	.36	1.1	.66	.29	.14	.50	.64	.80
MIN			.15	.01	.04	.32	.30	.04	.06	.12	.08	.16
AC-FT			37	14	8.9	38	26	10.0	5.9	19	14	17

15297773 Gallery Creek at Shemya Air Force Base

LOCATION.--Lat 52°42'42", long 174°07'18"E., on Shemya Island, on right bank 50 ft upstream from unnamed tributary and 0.2 mile south of airport terminal.

DRAINAGE AREA.--1.0 sq mi, approximately.

PERIOD OF RECORD.--December 1970 to September 30, 1971.

GAGE.--Water-stage recorder and rectangular notched weir. Altitude of gage is 40 ft (from topographic map).

EXTREMES.--Maximum discharge during period, 12.1 cfs Aug. 20 (gage height, 1.65 ft); minimum daily, 0.10 cfs June 3-11.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. There is diversion from the stream for domestic supply 0.5 mile upstream from the gage. Records of discharge represent net flow after diversion. Records of periodic chemical analyses for the period of record are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			1.7	.90	.76	.50	.85	.35	.12	1.2	.30	1.1
2			1.7	.90	.70	.58	.80	.30	.11	1.0	.28	.70
3			2.0	.80	.64	3.2	.75	.30	.10	.90	.23	.53
4			2.0	.80	.64	2.9	.80	.30	.10	.65	.18	.48
5			1.8	.80	.88	4.2	.88	.30	.10	.70	.18	.43
6			2.1	.70	.92	3.5	.98	.25	.10	1.8	.18	.38
7			2.0	.70	1.3	1.8	1.4	.25	.10	1.6	.18	.28
8			1.8	.70	.58	1.5	2.1	.25	.10	1.3	.14	.23
9			1.6	.70	.64	1.3	1.5	.15	.10	1.0	.14	.33
10			1.4	1.3	.82	1.1	1.2	.23	.10	1.1	.14	.28
11			1.3	3.3	1.5	.88	.98	.22	.10	1.4	.14	.26
12			1.3	5.9	1.3	.76	.90	.20	.58	1.2	.14	.24
13			1.3	2.6	.88	.70	.75	.19	.82	.98	.18	.23
14			1.4	2.1	.80	.65	.70	.19	1.0	.90	.18	.25
15			1.5	1.7	.75	.60	.65	.25	.90	.80	.14	.28
16			1.3	1.5	.70	.60	.65	.26	.60	.70	.18	.34
17			1.2	1.5	.70	.55	.65	.25	.40	.60	.23	.40
18			1.3	1.4	.70	.55	.76	.24	.35	.50	.38	.50
19			1.3	1.3	.70	.70	.88	.20	.30	.50	2.3	.45
20			1.2	1.2	.70	1.5	.90	.17	.25	.45	4.5	.41
21			1.2	1.1	.70	1.5	.75	.16	.25	.40	1.8	.50
22			1.1	1.0	.70	1.4	.65	.15	.20	.35	1.4	1.0
23			1.1	.98	.75	1.1	.55	.15	.20	.35	1.2	.80
24			1.0	.88	.82	.93	.50	.30	.18	.30	1.0	.60
25			.70	.82	1.6	.88	.45	.70	.16	.30	.82	.48
26			.70	.82	.93	.80	.45	.75	.15	.30	.64	.43
27			.70	.82	.58	.70	.40	.60	.14	.30	.28	.66
28			.70	.76	.50	.90	.40	.50	.13	.35	.23	2.2
29			1.0	.76	------	1.1	.35	.30	.13	.35	.33	6.3
30			1.0	.76	------	1.0	.35	.20	.12	.35	.43	2.1
31		------	.90	.76	------	.90	------	.15	------	.35	1.1	------
TOTAL			41.30	40.16	23.19	39.28	23.93	8.81	7.99	22.98	19.55	23.16
MEAN			1.33	1.30	.83	1.27	.80	.28	.27	.74	.63	.77
MAX			2.1	5.9	1.6	4.2	2.1	.75	1.0	1.8	4.5	6.3
MIN			.70	.70	.50	.50	.35	.15	.10	.30	.14	.23
AC-FT			82	80	46	78	47	17	16	46	39	46

NOTE.--No gage-height record Dec. 6 to Jan. 10, Apr. 11 to July 6.

15300500 Kvichak River at Igiugig

LOCATION.--Lat 59°19'44", long 155°53'57", in NE¼ sec.7, T.10 S., R.39 W., on left bank, 0.7 mile downstream from outlet of Iliamna Lake at Igiugig.

DRAINAGE AREA.--6,500 sq mi, approximately.

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 45 ft (from topographic map). Prior to Oct. 1, 1969, nonrecording gage at site 1,500 ft upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 43,000 cfs Aug. 29 (gage height, 23.17 ft); minimum, 8,520 cfs Apr. 22, but may have been less during period of no gage-height record in February and March.
Period of record: Maximum daily discharge, 43,000 cfs Sept. 21, 22, 1967; minimum daily, 6,400 cfs Apr. 21, 22, 1969.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Discharge affected by storage in Lake Iliamna and Lake Clark and other smaller lakes covering over 1,100 sq mi. Records of periodic chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska, 1970: 1967-69.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22,600	18,000	15,000	13,000	11,000	10,000	9,240	9,000	12,000	19,000	29,000	40,400
2	22,500	18,000	15,000	13,000	11,000	10,000	9,280	9,000	12,000	19,000	29,000	41,200
3	22,200	18,000	15,000	13,000	11,000	10,000	9,200	9,000	13,000	19,000	30,000	40,300
4	22,100	18,000	15,000	13,000	11,000	10,000	9,200	9,500	13,000	20,000	30,000	40,200
5	23,400	18,000	15,000	13,000	11,000	10,000	9,160	9,500	13,000	20,000	30,000	40,100
6	22,600	17,000	15,000	13,000	11,000	10,000	9,120	9,500	13,000	20,000	31,000	40,200
7	22,300	17,000	15,000	13,000	11,000	10,000	9,040	9,500	13,000	20,000	32,000	39,800
8	22,100	17,000	15,000	12,000	11,000	10,000	9,000	9,500	13,000	20,800	32,000	39,900
9	22,100	17,000	15,000	12,000	11,000	10,000	8,920	9,500	14,000	21,200	33,000	39,800
10	21,700	17,000	15,000	12,000	11,000	10,000	8,960	9,500	14,000	21,300	34,000	39,400
11	21,200	17,000	14,000	12,000	11,000	10,000	9,000	10,000	14,000	21,600	34,000	39,100
12	21,100	17,000	14,000	12,000	11,000	10,000	9,080	10,000	14,000	21,900	35,000	38,700
13	21,000	17,000	14,000	12,000	11,000	10,000	9,080	10,000	14,000	22,100	35,000	38,400
14	21,000	17,000	14,000	12,000	11,000	10,000	9,160	10,000	15,000	22,500	36,000	39,100
15	21,000	17,000	14,000	12,000	11,000	10,000	9,160	10,000	15,000	22,800	36,000	38,500
16	21,000	16,000	14,000	12,000	11,000	10,000	9,160	10,000	15,000	23,300	37,000	37,700
17	20,000	16,000	14,000	12,000	11,000	10,000	9,000	10,000	15,000	24,400	37,000	37,000
18	20,000	16,000	14,000	12,000	11,000	10,000	8,800	11,000	15,000	24,800	38,000	37,000
19	20,000	16,000	14,000	12,000	11,000	10,000	8,920	11,000	16,000	25,000	38,300	37,000
20	20,000	16,000	14,000	12,000	11,000	10,000	9,000	11,000	16,000	25,000	38,700	37,000
21	20,000	16,000	14,000	12,000	11,000	10,000	8,720	11,000	16,000	26,000	39,200	36,000
22	20,000	16,000	14,000	12,000	11,000	10,000	8,600	11,000	16,000	26,000	40,200	36,000
23	19,000	16,000	13,000	12,000	11,000	10,000	8,640	11,000	16,000	27,000	39,700	36,000
24	19,000	16,000	13,000	12,000	11,000	9,500	9,000	11,000	17,000	27,000	39,700	36,000
25	19,000	16,000	13,000	12,000	11,000	9,440	9,000	11,000	17,000	27,000	40,300	35,000
26	19,000	15,000	13,000	11,000	11,000	9,440	9,000	11,000	17,000	28,000	41,400	35,000
27	19,000	15,000	13,000	11,000	11,000	9,480	9,000	12,000	17,000	28,000	42,100	35,000
28	19,000	15,000	13,000	11,000	11,000	9,400	9,000	12,000	18,000	28,000	40,700	34,000
29	18,000	15,000	13,000	11,000	------	9,280	9,000	12,000	18,000	29,000	41,500	34,000
30	18,000	15,000	13,000	11,000	------	9,320	9,000	12,000	18,000	29,000	40,200	34,000
31	18,000	------	13,000	11,000	------	9,280	------	12,000	------	29,000	40,600	------
TOTAL	637,900	495,000	435,000	373,000	308,000	305,140	270,440	322,500	449,000	737,700	1,120.6M	1,131.8M
MEAN	20,580	16,500	14,030	12,030	11,000	9,843	9,015	10,400	14,970	23,800	36,150	37,730
MAX	23,400	18,000	15,000	13,000	11,000	10,000	9,280	12,000	18,000	29,000	42,100	41,200
MIN	18,000	15,000	13,000	11,000	11,000	9,280	8,600	9,000	12,000	19,000	29,000	34,000
AC-FT	1,265M	981,800	862,800	739,800	610,900	605,200	536,400	639,700	890,600	1,463M	2,223M	2,245M

CAL YR 1970 TOTAL 6,140,300 MEAN 16,820 MAX 25,800 MIN 12,000 AC-FT 12,180,000
WTR YR 1971 TOTAL 6,586,080 MEAN 18,040 MAX 42,100 MIN 8,600 AC-FT 13,060,000

NOTE.--No gage-height record Oct. 13 to Mar. 24, Apr. 24 to July 7, and July 19 to Aug. 18.
M.--Expressed in thousands.

15302000 Nuyakuk River near Dillingham

LOCATION.--Lat 59°56'04", long 158°11'05", in NE¼ sec.10, T.3 S., R.52 W., on left bank, 1,000 ft downstream from outlet of Tikchik Lake, 0.5 mile upstream from unnamed tributary, and 62 miles north of Dillingham.

DRAINAGE AREA.--1,490 sq mi, approximately.

PERIOD OF RECORD.--May 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 325 ft (from topographic map). Prior to Oct. 1, 1957, at datum 2.00 ft higher.

AVERAGE DISCHARGE.--18 years, 5,932 cfs (4,298,000 acre-ft per year).

EXTREMES.--Water year 1970: Maximum discharge, 18,600 cfs June 22 (gage height, 7.57 ft, in gage well, 7.85 ft, from floodmarks); minimum daily, 1,600 cfs (revised) Apr. 1-30.
Current year: Maximum discharge, 21,600 cfs July 27, 28 (gage height, 8.19 ft); minimum daily, 1,400 cfs Mar. 20 to Apr. 24.
Period of record: Maximum discharge, 30,000 cfs June 20, 21, 1969 (gage height, 10.01 ft, in gage well, 10.70 ft, from floodmarks); minimum not determined.
REVISIONS.--The minimum daily discharge for the water year 1970 has been revised to 1,600 cfs Apr. 1-30 superseding figure published in WRD Alaska, 1970.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Discharge affected by storage in Tikchik Lake, Nuyakuk Lake, Lake Chanekuktuli and other smaller lakes in the basin covering over 170 sq mi. Records of periodic suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--Revised figures of discharge, for water year 1970, superseding those published in WRD Alaska, 1970, are given herein.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,800	12,000	5,000	2,600	2,000	1,700	1,600	1,700	9,980	15,800	9,990	10,200
2	7,000	12,000	5,000	2,600	2,000	1,700	1,600	1,700	10,500	15,300	9,750	10,000
3	7,200	11,000	5,000	2,600	2,000	1,700	1,600	1,800	10,900	14,900	9,790	9,730
4	7,400	11,000	5,000	2,600	2,000	1,700	1,600	1,900	11,200	14,600	9,490	9,830
5	7,700	11,000	5,000	2,600	2,000	1,700	1,600	2,000	11,700	14,300	9,390	9,860
6	8,000	10,000	4,500	2,600	2,000	1,700	1,600	2,100	12,100	14,200	9,150	9,630
7	8,300	10,000	4,500	2,600	2,000	1,700	1,600	2,200	12,600	13,800	9,110	9,450
8	8,390	10,000	4,500	2,600	2,000	1,700	1,600	2,200	13,200	13,300	8,960	9,180
9	8,550	10,000	4,500	2,600	2,000	1,700	1,600	2,300	13,600	13,000	8,790	8,950
10	8,740	10,000	4,500	2,400	2,000	1,700	1,600	2,400	13,900	12,700	8,610	8,640
11	9,210	9,000	4,000	2,400	1,800	1,700	1,600	2,500	14,200	12,700	8,360	8,700
12	9,240	9,000	4,000	2,400	1,800	1,700	1,600	2,600	14,500	13,700	8,110	8,870
13	10,500	9,000	4,000	2,400	1,800	1,700	1,600	2,800	15,000	14,200	8,090	8,910
14	12,100	9,000	4,000	2,400	1,800	1,700	1,600	2,900	15,400	14,300	8,380	8,890
15	13,000	9,000	4,000	2,400	1,800	1,700	1,600	3,100	15,600	14,300	8,250	8,780
16	13,500	8,000	3,500	2,200	1,800	1,700	1,600	3,300	15,600	14,100	8,220	8,730
17	13,700	8,000	3,500	2,200	1,800	1,700	1,600	3,600	15,500	13,900	7,990	8,600
18	14,700	8,000	3,500	2,200	1,800	1,700	1,600	4,000	16,700	13,600	8,870	8,430
19	15,200	8,000	3,500	2,200	1,800	1,700	1,600	4,400	17,500	13,100	9,390	8,270
20	15,400	8,000	3,500	2,200	1,800	1,700	1,600	4,800	18,000	12,900	10,000	8,090
21	15,200	7,000	3,000	2,000	1,800	1,700	1,600	5,200	18,400	12,700	10,400	7,890
22	15,100	7,000	3,000	2,000	1,800	1,700	1,600	5,600	18,500	12,700	10,600	7,700
23	14,800	7,000	3,000	2,000	1,800	1,700	1,600	6,000	18,400	12,500	10,600	7,480
24	14,500	7,000	3,000	2,000	1,800	1,700	1,600	6,600	18,200	12,200	10,600	7,310
25	14,100	7,000	3,000	2,000	1,800	1,700	1,600	7,000	18,000	11,900	10,600	7,140
26	13,800	6,000	3,000	2,000	1,800	1,700	1,600	7,400	17,700	11,600	10,500	6,940
27	13,400	6,000	3,000	2,000	1,800	1,700	1,600	7,640	17,400	11,300	10,300	6,780
28	12,900	6,000	3,000	2,000	1,800	1,700	1,600	8,160	17,000	11,000	10,300	6,570
29	12,500	6,000	3,000	2,000	------	1,700	1,600	8,640	16,500	10,600	10,300	6,400
30	12,300	6,000	3,000	2,000	------	1,700	1,600	9,100	16,200	10,600	10,400	6,260
31	12,300	------	3,000	2,000	------	1,700	------	9,530	------	10,300	10,300	------
TOTAL	355,530	257,000	118,000	70,800	52,400	52,700	48,000	135,170	453,980	406,100	293,590	252,210
MEAN	11,470	8,567	3,806	2,284	1,871	1,700	1,600	4,360	15,130	13,100	9,471	8,407
MAX	15,400	12,000	5,000	2,600	2,000	1,700	1,600	9,530	18,500	15,800	10,600	10,200
MIN	6,800	6,000	3,000	2,000	1,800	1,700	1,600	1,700	9,980	10,300	7,990	6,260
AC-FT	705,200	509,800	234,100	140,400	103,900	104,500	95,210	268,100	900,500	805,500	582,300	500,300

CAL YR 1969 TOTAL 2,611,870 MEAN 7,156 MAX 29,900 MIN 1,500 AC-FT 5,181,000
WTR YR 1970 TOTAL 2,495,480 MEAN 6,837 MAX 18,500 MIN 1,600 AC-FT 4,950,000

NOTE.--No gage-height record Dec. 6 to May 26.

15302000 Nuyakuk River near Dillingham--(continued).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,090	3,500	2,400	1,800	1,600	1,500	1,400	1,600	7,500	21,000	20,300	9,690
2	5,920	3,500	2,400	1,800	1,600	1,500	1,400	1,700	8,000	21,000	19,800	9,470
3	5,720	3,500	2,400	1,800	1,600	1,500	1,400	1,700	8,500	20,000	19,100	9,260
4	5,560	3,500	2,400	1,800	1,600	1,500	1,400	1,800	9,000	20,000	18,400	9,050
5	5,440	3,500	2,400	1,800	1,600	1,500	1,400	1,900	10,000	20,000	18,000	8,750
6	5,430	3,400	2,200	1,800	1,600	1,500	1,400	2,000	10,000	19,000	17,500	8,570
7	5,350	3,400	2,200	1,800	1,600	1,500	1,400	2,000	10,000	19,000	17,100	8,390
8	5,310	3,400	2,200	1,800	1,600	1,500	1,400	2,200	11,000	18,500	16,700	8,080
9	5,290	3,400	2,200	1,800	1,600	1,500	1,400	2,200	11,000	18,000	16,300	7,830
10	5,090	3,400	2,200	1,800	1,500	1,500	1,400	2,400	12,000	17,600	16,000	7,600
11	4,980	3,200	2,100	1,800	1,500	1,500	1,400	2,400	12,000	17,200	15,500	7,460
12	4,890	3,200	2,100	1,800	1,500	1,500	1,400	2,400	13,000	16,700	15,000	7,260
13	4,960	3,200	2,100	1,800	1,500	1,500	1,400	2,600	13,000	16,300	14,500	7,020
14	4,870	3,200	2,100	1,800	1,500	1,500	1,400	2,600	14,000	15,900	13,900	6,810
15	4,820	3,000	2,100	1,700	1,500	1,500	1,400	2,800	14,000	15,400	13,300	6,710
16	4,730	3,000	2,000	1,700	1,500	1,500	1,400	2,800	14,000	14,700	12,900	6,590
17	4,700	3,000	2,000	1,700	1,500	1,500	1,400	3,000	15,000	14,100	12,600	6,450
18	4,530	3,000	2,000	1,700	1,500	1,500	1,400	3,200	15,000	13,900	12,500	6,300
19	4,420	3,000	2,000	1,700	1,500	1,500	1,400	3,400	16,000	14,800	12,500	6,200
20	4,240	2,800	2,000	1,700	1,500	1,400	1,400	3,600	16,000	15,700	12,300	6,000
21	4,160	2,800	2,000	1,700	1,500	1,400	1,400	3,800	16,000	16,200	11,600	5,800
22	4,020	2,800	2,000	1,700	1,500	1,400	1,400	4,000	17,000	17,200	11,300	5,600
23	3,880	2,800	2,000	1,700	1,500	1,400	1,400	4,500	17,000	18,800	11,000	5,400
24	3,810	2,800	2,000	1,700	1,500	1,400	1,400	5,000	18,000	19,900	10,700	5,200
25	3,790	2,600	2,000	1,700	1,500	1,400	1,500	5,000	18,000	20,600	10,300	5,000
26	3,770	2,600	1,900	1,600	1,500	1,400	1,500	5,500	19,000	20,800	9,980	4,800
27	3,560	2,600	1,900	1,600	1,500	1,400	1,500	6,000	19,000	21,500	9,800	4,800
28	3,510	2,600	1,900	1,600	1,500	1,400	1,500	6,000	20,000	21,600	10,100	4,600
29	3,520	2,600	1,900	1,600	------	1,400	1,500	6,500	20,000	21,400	10,000	4,600
30	3,700	2,400	1,900	1,600	------	1,400	1,600	7,000	21,000	21,100	9,960	4,600
31	3,650	------	1,900	1,600	------	1,400	------	7,500	------	20,800	9,910	------
TOTAL	143,710	91,700	64,900	53,500	42,900	45,300	42,700	109,100	424,000	568,700	428,850	203,890
MEAN	4,636	3,057	2,094	1,726	1,532	1,461	1,423	3,519	14,130	18,350	13,830	6,796
MAX	6,090	3,500	2,400	1,800	1,600	1,500	1,600	7,500	21,000	21,600	20,300	9,690
MIN	3,510	2,400	1,900	1,600	1,500	1,400	1,400	1,600	7,500	13,900	9,800	4,600
AC-FT	285,000	181,900	128,700	106,100	85,090	89,850	84,700	216,400	841,000	1,128M	850,600	404,400

CAL YR 1970 TOTAL 2,066,050 MEAN 5,660 MAX 18,500 MIN 1,600 AC-FT 4,098,000
WTR YR 1971 TOTAL 2,219,250 MEAN 6,080 MAX 21,600 MIN 1,400 AC-FT 4,402,000

NOTE.--No gage-height record Nov. 1 to July 8.
M.--Expressed in thousands.

15303600 Kuskokwim River at McGrath

LOCATION.--Lat 62°57'10", long 155°35'11", NW¼ sec.17, T.33 N., R.33 W., on left bank at McGrath, 0.9 mile upstream from Takotna River.

DRAINAGE AREA.--11,700 sq mi, approximately.

PERIOD OF RECORD.--July 1963 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 300 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 13,480 cfs (9,766,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge observed, 67,200 cfs May 24 (gage height, 21.40 ft); minimum daily, 4,000 cfs Mar. 1 to Apr. 5.
Period of record: Maximum daily discharge, 70,000 cfs June 6, 1964; maximum gage height, 26.02 ft June 2, 1964, from floodmarks (backwater from ice); minimum discharge not determined.

REMARKS.--Records fair except those for the period Oct. 20 to May 20, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,000	6,000	4,200	4,200	4,100	4,000	4,000	10,000	50,000	43,500	18,400	21,800
2	11,400	6,000	4,200	4,200	4,100	4,000	4,000	11,000	46,500	43,500	19,000	21,100
3	11,000	6,000	4,200	4,200	4,100	4,000	4,000	11,000	42,000	42,000	22,500	20,800
4	9,700	6,000	4,200	4,200	4,100	4,000	4,000	12,000	34,100	35,000	26,500	20,400
5	8,800	6,000	4,200	4,200	4,100	4,000	4,000	13,000	28,900	29,700	27,300	20,800
6	9,100	5,500	4,200	4,200	4,100	4,000	4,200	14,000	27,700	26,900	25,700	21,100
7	9,400	5,500	4,200	4,200	4,100	4,000	4,200	15,000	27,300	26,100	24,500	20,800
8	10,300	5,500	4,200	4,200	4,100	4,000	4,200	18,000	28,500	26,100	31,700	20,000
9	11,000	5,500	4,200	4,200	4,100	4,000	4,200	22,000	28,500	26,500	41,500	19,700
10	11,600	5,500	4,200	4,200	4,100	4,000	4,200	24,000	27,300	26,900	50,000	19,000
11	12,000	5,500	4,200	4,200	4,100	4,000	4,600	25,000	26,900	26,900	56,800	17,400
12	11,600	5,000	4,200	4,200	4,100	4,000	4,600	26,000	27,300	28,500	60,600	16,700
13	11,600	5,000	4,200	4,200	4,100	4,000	4,800	30,000	28,900	30,900	62,800	17,000
14	11,400	5,000	4,200	4,200	4,100	4,000	4,800	35,000	31,300	37,600	64,400	16,400
15	11,600	5,000	4,200	4,200	4,100	4,000	5,000	45,000	32,100	45,500	64,400	15,800
16	11,400	4,800	4,200	4,200	4,100	4,000	5,000	50,000	31,700	47,500	59,500	15,400
17	11,000	4,800	4,200	4,200	4,100	4,000	5,500	48,000	30,500	42,500	49,500	15,100
18	10,500	4,800	4,200	4,200	4,100	4,000	5,500	48,000	28,100	36,300	41,500	15,100
19	10,000	4,800	4,200	4,200	4,100	4,000	5,500	48,000	24,900	31,700	36,300	15,100
20	9,000	4,600	4,200	4,200	4,100	4,000	6,000	52,000	22,500	28,500	32,900	15,100
21	9,000	4,600	4,200	4,200	4,100	4,000	6,000	56,800	21,400	26,500	32,500	14,800
22	8,000	4,600	4,200	4,200	4,100	4,000	6,500	63,900	22,500	24,900	34,500	14,100
23	8,000	4,600	4,200	4,200	4,100	4,000	7,000	66,600	26,500	25,700	33,700	14,100
24	8,000	4,600	4,200	4,200	4,100	4,000	7,000	67,200	30,500	24,100	31,300	13,800
25	8,000	4,600	4,200	4,200	4,100	4,000	7,500	65,000	32,500	21,800	28,900	13,500
26	8,000	4,400	4,200	4,200	4,100	4,000	8,000	63,400	35,000	20,400	28,100	13,200
27	7,000	4,400	4,200	4,200	4,100	4,000	8,000	62,800	38,600	20,000	27,700	13,200
28	7,000	4,400	4,200	4,200	4,100	4,000	8,500	61,700	40,500	20,000	27,300	12,500
29	7,000	4,400	4,200	4,200	------	4,000	9,000	58,400	43,000	20,000	25,700	12,800
30	7,000	4,400	4,200	4,200	------	4,000	9,500	55,100	44,000	19,700	24,900	14,400
31	7,000	------	4,200	4,200	------	4,000	------	52,500	------	19,000	23,300	------
TOTAL	298,400	151,800	130,200	130,200	114,800	124,000	169,300	1,230.4M	959,500	924,200	1,133.7M	501,000
MEAN	9,626	5,060	4,200	4,200	4,100	4,000	5,643	39,690	31,980	29,810	36,570	16,700
MAX	12,000	6,000	4,200	4,200	4,100	4,000	9,500	67,200	50,000	47,500	64,400	21,800
MIN	7,000	4,400	4,200	4,200	4,100	4,000	4,000	10,000	21,400	19,000	18,400	12,500
CFSM	.82	.43	.36	.36	.35	.34	.48	3.39	2.73	2.55	3.13	1.43
IN.	.95	.48	.41	.41	.37	.39	.54	3.91	3.05	2.94	3.60	1.59
AC-FT	591,900	301,100	258,300	258,300	227,700	246,000	335,800	2,440M	1,903M	1,833M	2,249M	993,700

CAL YR 1970 TOTAL 3,659,100 MEAN 10,020 MAX 31,600 MIN 3,900 CFSM .86 IN 11.63 AC-FT 7,258,000
WTR YR 1971 TOTAL 5,867,500 MEAN 16,080 MAX 67,200 MIN 4,000 CFSM 1.37 IN 18.66 AC-FT 11,640,000

NOTE.--No gage-height record Oct. 20 to Apr. 3.

M.--Expressed in thousands.

15304000 Kuskokwim River at Crooked Creek

LOCATION.--Lat 61°52'10", long 158°06'42", in NE¼ sec.32, T.21 N., R.48 W., on right bank at village of Crooked Creek, 0.2 mile upstream from Crooked Creek.

DRAINAGE AREA.--31,100 sq mi, approximately.

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 200 ft (from topographic map).

AVERAGE DISCHARGE.--20 years, 43,820 cfs (31,750,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 247,000 cfs about May 27 (gage height, 18.76 ft, from floodmark); minimum daily, 9,500 cfs Mar. 1 to Apr. 13.
Period of record: Maximum discharge, 392,000 cfs June 5, 1964 (gage height, 25.74 ft); maximum gage height, 26.36 ft about May 16, 1968, from floodmark (backwater from ice); minimum discharge not determined.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of periodic chemical analyses and periodic suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40,000	22,000	13,000	11,000	10,000	9,500	9,500	22,000	160,000	112,000	54,800	64,700
2	38,000	21,000	13,000	11,000	10,000	9,500	9,500	25,000	140,000	105,000	59,000	60,800
3	35,000	21,000	13,000	11,000	10,000	9,500	9,500	30,000	110,000	95,000	60,800	59,000
4	33,000	20,000	13,000	11,000	10,000	9,500	9,500	40,000	90,000	90,000	60,800	56,400
5	31,000	20,000	13,000	11,000	10,000	9,500	9,500	45,000	70,000	85,000	60,800	55,600
6	32,000	19,000	13,000	11,000	10,000	9,500	9,500	55,000	68,000	75,000	60,800	55,600
7	33,000	19,000	13,000	11,000	10,000	9,500	9,500	60,000	66,000	72,000	65,700	54,000
8	36,000	18,000	13,000	11,000	10,000	9,500	9,500	70,000	66,000	69,700	89,100	53,200
9	38,000	18,000	13,000	11,000	10,000	9,500	9,500	75,000	66,000	68,700	116,000	51,600
10	39,000	18,000	12,000	11,000	10,000	9,500	9,500	80,000	66,000	66,700	152,000	50,800
11	40,000	17,000	12,000	10,000	10,000	9,500	9,500	90,000	64,000	67,700	172,000	49,400
12	40,000	17,000	12,000	10,000	10,000	9,500	9,500	95,000	64,000	67,700	204,000	48,600
13	39,000	17,000	12,000	10,000	10,000	9,500	9,500	105,000	66,000	68,700	229,000	47,100
14	38,000	17,000	12,000	10,000	10,000	9,500	10,000	115,000	68,000	72,000	227,000	45,600
15	37,000	16,000	12,000	10,000	10,000	9,500	10,000	130,000	70,000	80,000	199,000	44,100
16	36,000	16,000	12,000	10,000	10,000	9,500	10,000	140,000	68,000	100,000	168,000	44,100
17	35,000	16,000	12,000	10,000	10,000	9,500	10,000	130,000	66,000	95,000	150,000	43,400
18	33,000	16,000	12,000	10,000	10,000	9,500	11,000	130,000	66,000	85,000	138,000	42,000
19	32,000	15,000	12,000	10,000	10,000	9,500	11,000	130,000	64,000	75,000	120,000	42,000
20	31,000	15,000	11,000	10,000	10,000	9,500	11,000	140,000	60,000	72,000	107,000	42,000
21	30,000	15,000	11,000	10,000	10,000	9,500	11,000	160,000	60,000	69,700	96,400	41,300
22	29,000	15,000	11,000	10,000	10,000	9,500	12,000	170,000	60,000	68,700	90,300	41,300
23	28,000	15,000	11,000	10,000	10,000	9,500	12,000	190,000	64,000	66,700	84,300	41,300
24	27,000	14,000	11,000	10,000	10,000	9,500	13,000	200,000	70,000	63,700	81,900	39,900
25	26,000	14,000	11,000	10,000	10,000	9,500	13,000	220,000	80,000	62,700	80,700	39,200
26	25,000	14,000	11,000	10,000	10,000	9,500	14,000	230,000	90,000	61,700	77,400	39,200
27	25,000	14,000	11,000	10,000	10,000	9,500	15,000	244,000	100,000	61,700	75,200	38,500
28	24,000	14,000	11,000	10,000	10,000	9,500	16,000	230,000	105,000	60,800	73,000	37,800
29	23,000	14,000	11,000	10,000	------	9,500	17,000	210,000	108,000	59,000	69,700	41,300
30	22,000	14,000	11,000	10,000	------	9,500	19,000	190,000	110,000	57,200	69,700	47,100
31	22,000	------	11,000	10,000	------	9,500	------	180,000	------	54,800	67,700	------
TOTAL	997,000	501,000	369,000	320,000	280,000	294,500	338,500	3,931.0M	2,405.0M	2,308.9M	3,360.1M	1,416.9M
MEAN	32,160	16,700	11,900	10,320	10,000	9,500	11,280	126,800	80,170	74,480	108,400	47,230
MAX	40,000	22,000	13,000	11,000	10,000	9,500	19,000	244,000	160,000	112,000	229,000	64,700
MIN	22,000	14,000	11,000	10,000	10,000	9,500	9,500	22,000	60,000	54,800	54,800	37,800
AC-FT	1,978M	993,700	731,900	634,700	555,400	584,100	671,400	7,797M	4,770M	4,580M	6,665M	2,810M

CAL YR 1970 TOTAL 12,691,200 MEAN 34,770 MAX 105,000 MIN 10,000 AC-FT 25,170,000
WTR YR 1971 TOTAL 16,521,900 MEAN 45,270 MAX 244,000 MIN 9,500 AC-FT 32,770,000

NOTE.--No gage-height record Oct. 1 to July 7.

M.--Expressed in thousands.

15356000 Yukon River at Eagle

LOCATION.--Lat 64°47'22", long 141°11'52", in NW¼ sec.31, T.1 S., R.33 E., on left bank at Eagle, 0.1 mile upstream from Mission Creek, 1.1 miles downstream from Castalia Creek, and 11 miles downstream from the international boundary.

DRAINAGE AREA.--113,500 sq mi, approximately.

PERIOD OF RECORD.--January 1911 to December 1913, June 1950 to current year. Monthly discharge only for some periods, published in WSP 1372.

GAGE.--Nonrecording gage read once or twice daily. Altitude of gage is 850 ft (from topographic map). See WSP 1936 for history of changes prior to Oct. 1, 1963.

AVERAGE DISCHARGE.--23 years, 80,080 cfs (9.56 inches per year, 58,020,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 300,000 cfs June 17 (gage height, 23.40 ft); minimum discharge not determined. Period of record: Maximum discharge, 545,000 cfs June 12, 1964 (gage height, 33.85 ft); maximum gage height, 35.94 ft in May 1962, from floodmarks (backwater from ice); minimum discharge not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1372: 1911-14. WRD Alaska, 1968: 1957, 1964 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88,800	60,000	26,000	20,000	17,000	17,000	19,000	23,000	235,000	207,000	149,000	120,000
2	89,300	60,000	25,000	20,000	17,000	17,000	19,000	24,000	243,000	201,000	143,000	118,000
3	90,700	60,000	25,000	20,000	17,000	17,000	19,000	25,000	239,000	194,000	144,000	121,000
4	93,800	59,000	24,000	19,000	17,000	17,000	19,000	26,000	229,000	189,000	148,000	128,000
5	95,200	58,000	24,000	19,000	17,000	17,000	19,000	27,000	230,000	187,000	148,000	132,000
6	94,500	56,000	24,000	19,000	17,000	17,000	19,000	28,000	245,000	178,000	146,000	130,000
7	94,400	54,000	24,000	18,000	17,000	17,000	19,000	30,000	257,000	170,000	135,000	126,000
8	93,600	52,000	24,000	18,000	17,000	17,000	19,000	32,000	251,000	165,000	133,000	123,000
9	91,800	50,000	24,000	18,000	17,000	18,000	19,000	36,000	244,000	157,000	135,000	121,000
10	89,700	48,000	24,000	18,000	17,000	18,000	19,000	42,000	247,000	152,000	135,000	121,000
11	87,500	45,000	24,000	18,000	17,000	18,000	19,000	50,000	254,000	149,000	138,000	117,000
12	85,000	43,000	24,000	17,000	17,000	18,000	19,000	80,000	261,000	147,000	143,000	114,000
13	84,000	41,000	24,000	17,000	17,000	18,000	19,000	140,000	269,000	148,000	156,000	110,000
14	82,700	39,000	24,000	17,000	17,000	18,000	19,000	170,000	273,000	155,000	157,000	107,000
15	81,800	38,000	24,000	17,000	17,000	19,000	19,000	190,000	281,000	165,000	154,000	103,000
16	81,600	37,000	24,000	17,000	17,000	19,000	19,000	200,000	291,000	173,000	152,000	99,600
17	80,200	36,000	24,000	17,000	17,000	19,000	19,000	210,000	296,000	184,000	148,000	96,000
18	78,600	35,000	24,000	17,000	17,000	19,000	19,000	230,000	276,000	189,000	138,000	95,700
19	74,600	33,000	24,000	17,000	17,000	19,000	19,000	240,000	251,000	192,000	131,000	95,700
20	75,200	32,000	23,000	17,000	17,000	19,000	19,000	250,000	237,000	196,000	128,000	95,400
21	73,000	31,000	23,000	17,000	17,000	19,000	20,000	240,000	236,000	196,000	127,000	93,200
22	70,100	30,000	22,000	17,000	17,000	19,000	20,000	240,000	243,000	195,000	131,000	92,600
23	64,300	30,000	22,000	17,000	17,000	19,000	20,000	230,000	251,000	190,000	138,000	95,200
24	64,000	29,000	22,000	17,000	17,000	19,000	20,000	231,000	257,000	181,000	138,000	98,700
25	62,000	29,000	21,000	17,000	17,000	19,000	20,000	236,000	252,000	163,000	136,000	98,600
26	62,000	28,000	21,000	17,000	17,000	19,000	20,000	237,000	243,000	156,000	136,000	97,600
27	60,000	28,000	20,000	17,000	17,000	19,000	20,000	238,000	237,000	150,000	137,000	96,500
28	60,000	27,000	20,000	17,000	17,000	19,000	21,000	236,000	230,000	147,000	135,000	95,800
29	60,000	27,000	20,000	17,000	------	19,000	21,000	237,000	224,000	151,000	131,000	93,400
30	60,000	27,000	20,000	17,000	------	19,000	22,000	245,000	214,000	153,000	128,000	91,200
31	60,000	------	20,000	17,000	------	19,000	------	240,000	------	153,000	124,000	------
TOTAL	2,428.4M	1,222.0M	714,000	547,000	476,000	567,000	584,000	4,663.0M	7,496.0M	5,333.0M	4,322.0M	3,226.2M
MEAN	78,340	40,730	23,030	17,650	17,000	18,290	19,470	150,400	249,900	172,000	139,400	107,500
MAX	95,200	60,000	26,000	20,000	17,000	19,000	22,000	250,000	296,000	207,000	157,000	132,000
MIN	60,000	27,000	20,000	17,000	17,000	17,000	19,000	23,000	214,000	147,000	124,000	91,200
CFSM	.69	.36	.20	.16	.15	.16	.17	1.33	2.20	1.52	1.23	.95
IN.	.80	.40	.23	.18	.16	.19	.19	1.53	2.46	1.75	1.42	1.06
AC-FT	4,817M	2,424M	1,416M	1,085M	944,100	1,125M	1,158M	9,249M	14,870M	10,580M	8,573M	6,399M

CAL YR 1970 TOTAL 28,515,000 MEAN 78,120 MAX 270,000 MIN 16,000 CFSM .69 IN 9.35 AC-FT 56,560,000
WTR YR 1971 TOTAL 31,578,600 MEAN 86,520 MAX 296,000 MIN 17,000 CFSM .76 IN 10.35 AC-FT 62,640,000

NOTE.--No gage-height record Oct. 24 to May 23.
M.--Expressed in thousands.

15389000 Porcupine River near Fort Yukon

LOCATION.--Lat 66°59'26", long 143°08'16", on right bank 1,000 ft upstream from John Herberts village, and 65 miles northeast of Fort Yukon.

DRAINAGE AREA.--29,500 sq mi, approximately.

PERIOD OF RECORD.--August 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (from topographic map). Prior to Aug. 17, 1968, 1,300 ft upstream at same datum.

AVERAGE DISCHARGE.--7 years, 13,290 cfs (6.12 inches per year, 9,629,000 acre-ft per year). 5 years, 13,200 cfs (9,536,000 acre-ft per year); figure published in WRD Alaska, 1969, in error.

EXTREMES.--Current year: Maximum discharge, 289,000 cfs about May 25 (gage height, 33.20 ft, from floodmarks); minimum daily, 740 cfs Apr. 16 to May 9.
Period of record: Maximum discharge, 289,000 cfs about May 25, 1971 (gage height, 33.20 ft); minimum may be zero flow at times.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of periodic suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Alaska 1969: 1968. WRD Alaska 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,520	2,000	1,400	1,000	820	800	760	740	120,000	16,200	15,900	18,300
2	4,430	1,900	1,400	960	820	800	760	740	110,000	15,000	13,900	19,100
3	3,380	1,900	1,400	960	820	800	760	740	100,000	13,700	13,000	18,600
4	3,200	1,900	1,300	920	820	800	760	740	90,000	12,700	12,000	18,000
5	3,000	1,900	1,300	920	820	800	760	740	80,000	11,400	13,000	17,700
6	2,900	1,900	1,300	900	820	800	760	740	62,000	10,500	14,000	19,100
7	2,800	1,800	1,300	900	820	800	760	740	54,000	10,400	15,000	26,300
8	2,700	1,800	1,300	900	820	800	760	740	52,000	10,700	16,000	44,300
9	2,600	1,800	1,300	900	820	800	760	740	50,000	10,500	18,000	47,900
10	2,600	1,800	1,200	860	820	800	760	760	54,000	10,100	20,000	43,200
11	2,500	1,800	1,200	860	820	800	760	800	50,000	9,700	21,000	38,600
12	2,500	1,700	1,200	860	820	800	760	860	45,000	9,380	23,600	34,000
13	2,400	1,700	1,200	860	820	800	760	920	38,000	9,440	36,100	30,300
14	2,400	1,700	1,200	860	820	800	760	1,000	32,000	9,200	90,300	26,800
15	2,400	1,700	1,200	860	820	800	760	1,200	27,000	8,840	92,200	24,500
16	2,300	1,700	1,200	860	820	780	740	2,000	23,000	14,200	69,500	22,500
17	2,300	1,700	1,200	860	820	780	740	3,000	20,000	18,000	52,500	21,100
18	2,300	1,600	1,200	860	820	780	740	7,000	19,000	18,100	41,800	20,000
19	2,200	1,600	1,100	860	820	780	740	20,000	19,000	17,400	34,700	19,000
20	2,200	1,600	1,100	860	820	780	740	50,000	21,000	16,100	29,600	18,200
21	2,200	1,600	1,100	840	820	780	740	100,000	24,000	14,700	26,400	17,700
22	2,100	1,600	1,100	840	820	780	740	190,000	27,000	13,100	24,100	17,400
23	2,100	1,600	1,100	840	820	780	740	250,000	30,000	11,800	21,900	17,200
24	2,100	1,500	1,100	840	820	780	740	230,000	29,000	10,800	20,000	17,800
25	2,100	1,500	1,100	840	820	780	740	200,000	29,300	11,800	18,600	17,900
26	2,100	1,500	1,100	840	820	780	740	170,000	27,200	20,400	17,400	17,400
27	2,000	1,500	1,100	840	820	780	740	140,000	24,200	26,700	16,600	16,800
28	2,000	1,500	1,100	840	820	780	740	130,000	21,700	25,200	16,600	16,200
29	2,000	1,400	1,000	840	------	780	740	130,000	19,600	22,200	16,900	15,300
30	2,000	1,400	1,000	840	------	780	740	140,000	17,800	19,800	17,300	14,600
31	2,000	------	1,000	840	------	780	------	130,000	------	17,700	17,200	------
TOTAL	79,330	50,600	36,800	27,060	22,960	24,480	22,500	1,904.2M	1,315.8M	445,760	855,100	695,800
MEAN	2,559	1,687	1,187	873	820	790	750	61,430	43,860	14,380	27,580	23,190
MAX	5,520	2,000	1,400	1,000	820	800	760	250,000	120,000	26,700	92,200	47,900
MIN	2,000	1,400	1,000	840	820	780	740	740	17,800	8,840	12,000	14,600
CFSM	.09	.06	.04	.03	.03	.03	.03	2.08	1.49	.49	.93	.79
IN.	.10	.06	.05	.03	.03	.03	.03	2.40	1.66	.56	1.08	.88
AC-FT	157,400	100,400	72,990	53,670	45,540	48,560	44,630	3,777M	2,610M	884,200	1,696M	1,380M

CAL YR 1970 TOTAL 4,316,540 MEAN 11,830 MAX 100,000 MIN 700 CFSM .40 IN 5.44 AC-FT 8,562,000
WTR YR 1971 TOTAL 5,480,390 MEAN 15,010 MAX 250,000 MIN 740 CFSM .51 IN 6.91 AC-FT 10,870,000

NOTE.--No gage-height record Oct. 17 to June 24.

M.--Expressed in thousands.

15389500 Chandalar River near Venetie

LOCATION.--Lat 67°05'49", long 147°11'04", on right bank called Chuttoh Bluffs, across the river from Venetie Indian Reservation, 2 miles downstream from East Fork, and 21.5 miles northwest of Venetie.

DRAINAGE AREA.--9,330 sq mi, approximately.

PERIOD OF RECORD.--July 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 800 ft (from topographic map).

AVERAGE DISCHARGE.--8 years, 4,917 cfs (7.16 inches per year, 3,562,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 56,300 cfs about June 22 (gage height, 19.14 ft from floodmarks); minimum daily, 5 cfs Mar. 7-28.
Period of record: Maximum discharge, 62,800 cfs June 9, 1968 (gage height, 19.57 ft); maximum gage height, 20.59 ft May or June 1964, from floodmarks (ice jam); no flow during most winters.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of periodic chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,250	1,150	670	210	42	8.0	6.0	33	2,500	13,600	16,900	3,050
2	2,200	1,150	640	200	38	7.0	6.0	36	3,200	11,200	14,300	2,900
3	2,100	1,100	620	190	37	7.0	7.0	40	3,800	9,400	13,400	3,150
4	2,050	1,100	600	180	34	6.0	7.0	44	5,000	8,200	14,600	3,600
5	2,000	1,100	580	180	32	6.0	7.0	46	6,000	7,320	13,900	5,420
6	1,950	1,050	560	170	30	6.0	8.0	52	7,200	6,930	11,900	6,510
7	1,900	1,050	540	160	29	5.0	8.0	54	9,000	7,240	10,200	6,370
8	1,850	1,050	520	160	27	5.0	8.0	60	12,000	8,120	8,840	5,740
9	1,800	1,000	500	150	25	5.0	8.0	66	16,000	8,760	8,040	5,060
10	1,750	1,000	490	150	24	5.0	9.0	72	22,000	8,920	7,080	4,340
11	1,700	1,000	470	140	22	5.0	9.0	82	26,000	8,440	6,300	3,600
12	1,650	1,000	460	130	21	5.0	10	90	30,000	8,680	5,480	3,150
13	1,650	980	440	130	20	5.0	11	100	29,000	10,900	4,940	2,800
14	1,650	970	420	120	19	5.0	12	110	27,000	11,000	4,640	2,400
15	1,550	950	400	120	18	5.0	12	130	25,000	9,400	4,280	2,100
16	1,550	930	390	120	17	5.0	13	150	27,000	9,000	3,860	1,900
17	1,500	920	370	110	16	5.0	14	170	32,000	9,400	3,500	1,720
18	1,450	900	360	110	15	5.0	14	200	38,000	8,280	3,250	1,600
19	1,400	890	340	100	14	5.0	15	230	45,000	7,000	3,000	1,560
20	1,400	870	330	90	13	5.0	16	260	50,000	6,230	3,050	1,520
21	1,350	850	320	85	12	5.0	17	300	54,000	6,580	4,520	1,460
22	1,350	830	310	78	12	5.0	18	340	56,000	15,600	5,950	1,400
23	1,300	810	290	75	11	5.0	19	400	52,000	26,300	6,090	1,350
24	1,300	800	280	70	10	5.0	20	500	44,000	25,200	5,600	1,300
25	1,250	780	270	65	10	5.0	21	600	38,000	26,700	5,060	1,200
26	1,250	760	260	60	9.0	5.0	24	700	31,200	21,700	4,700	1,150
27	1,200	750	250	58	9.0	5.0	26	880	26,900	16,800	4,220	1,100
28	1,200	730	240	55	8.0	5.0	27	1,000	23,900	15,100	3,920	1,050
29	1,150	710	230	50	------	6.0	29	1,200	20,300	17,400	3,650	1,050
30	1,150	690	220	48	------	6.0	31	1,500	16,900	21,300	3,450	1,000
31	1,150	------	210	45	------	6.0	------	2,000	------	20,200	3,250	------
TOTAL	49,000	27,870	12,580	3,609	574.0	168.0	432.0	11,445	778,900	390,900	211,870	80,550
MEAN	1,581	929	406	116	20.5	5.42	14.4	369	25,960	12,610	6,835	2,685
MAX	2,250	1,150	670	210	42	8.0	31	2,000	56,000	26,700	16,900	6,510
MIN	1,150	690	210	45	8.0	5.0	6.0	33	2,500	6,230	3,000	1,000
CFSM	.17	.10	.04	.01	.002	.0006	.002	.04	2.78	1.35	.73	.29
IN.	.20	.11	.05	.01	.002	0	.001	.05	3.11	1.56	.84	.32
AC-FT	97,190	55,280	24,950	7,160	1,140	333	857	22,700	1,545M	775,400	420,200	159,800

CAL YR 1970 TOTAL 1,072,075.00 MEAN 2,937 MAX 17,800 MIN 0 CFSM .31 IN 4.27 AC-FT 2,126,000
WTR YR 1971 TOTAL 1,567,898.00 MEAN 4,296 MAX 56,000 MIN 5.0 CFSM .46 IN 6.25 AC-FT 3,110,000

NOTE.--No gage-height record Oct. 1 to June 24.
M.--Expressed in thousands.

15457800 Hess Creek near Livengood

LOCATION.--Lat 65°39'55", long 149°05'47", near midspan on downstream side of bridge on TAPS Haul road 22 miles from Elliott Highway, and 18.6 miles northwest of Livengood.

DRAINAGE AREA.--662 sq mi.

PERIOD OF RECORD.--June 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above mean sea level (Alaska Department of Highways TBM).

EXTREMES.--June to September 1970: Maximum discharge during period, 5,910 cfs July 1 (gage height, 65.76 ft); minimum daily, 100 cfs Sept. 30.
Current year: Maximum discharge, 4,500 cfs Aug. 11 (gage height, 64.58 ft); minimum daily, 0.5 cfs Dec. 5 to Apr. 6.

REMARKS.--Records fair prior to October 1970, poor October 1970 to June 13, 1971 and good thereafter. Records of chemical analyses and suspended-sediment loads for the period June to September 1970 are published in Part 2 of WRD Alaska 1970. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									-	5,380	1,000	840
2									-	4,380	600	720
3									-	1,980	380	592
4									-	1,800	358	496
5									-	1,900	350	436
6									-	3,100	466	385
7									-	2,000	870	345
8									-	1,400	2,010	308
9									-	1,100	2,500	272
10									-	960	2,120	238
11									-	915	930	214
12									-	810	688	226
13									-	560	560	244
14									-	406	493	615
15									-	350	421	1,060
16									-	300	362	756
17									1,750	290	338	724
18									1,050	350	445	1,430
19									728	700	436	1,180
20									517	1,450	397	810
21									412	1,340	358	628
22									394	900	345	487
23									1,030	600	442	385
24									1,680	400	648	410
25									855	270	700	440
26									776	220	830	330
27									815	180	728	250
28									772	170	588	190
29					------				950	220	481	140
30					------				1,570	600	472	100
31		------			------		------		------	1,300	780	------
TOTAL										36,331	22,096	15,251
MEAN										1,172	713	508
MAX										5,380	2,500	1,430
MIN										170	338	100
CFSM										1.77	1.08	.77
IN.										2.04	1.24	.86
AC-FT										72,060	43,830	30,250

15457800 Hess Creek near Livengood--(continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	2.4	.70	.50	.50	.50	.50	3.2	640	53	680	182
2	70	2.2	.70	.50	.50	.50	.50	3.8	800	54	935	196
3	54	2.1	.60	.50	.50	.50	.50	4.5	900	54	840	250
4	45	2.0	.60	.50	.50	.50	.50	6.0	1,000	52	684	479
5	36	1.9	.60	.50	.50	.50	.50	7.0	900	52	493	1,270
6	31	1.8	.60	.50	.50	.50	.50	10	700	53	391	1,470
7	26	1.7	.60	.50	.50	.50	.60	13	450	68	310	985
8	23	1.6	.60	.50	.50	.50	.60	20	350	68	280	692
9	20	1.5	.60	.50	.50	.50	.60	30	280	112	979	505
10	18	1.4	.60	.50	.50	.50	.60	100	200	82	3,150	403
11	16	1.3	.50	.50	.50	.50	.60	350	170	71	4,200	338
12	14	1.3	.50	.50	.50	.50	.60	600	150	210	2,600	285
13	13	1.2	.50	.50	.50	.50	.70	1,000	130	2,380	1,330	246
14	12	1.2	.50	.50	.50	.50	.70	1,100	112	2,630	870	208
15	11	1.1	.50	.50	.50	.50	.70	900	100	2,300	640	192
16	10	1.0	.50	.50	.50	.50	.80	800	102	1,240	588	186
17	9.0	1.0	.50	.50	.50	.50	.80	700	168	748	365	180
18	8.0	1.0	.50	.50	.50	.50	.90	1,000	157	496	302	174
19	7.0	.90	.50	.50	.50	.50	1.0	1,100	132	345	258	181
20	6.0	.90	.50	.50	.50	.50	1.0	1,000	264	250	246	190
21	5.8	.90	.50	.50	.50	.50	1.1	880	382	232	352	182
22	5.2	.80	.50	.50	.50	.50	1.2	800	362	454	394	172
23	4.7	.80	.50	.50	.50	.50	1.3	900	294	430	332	158
24	4.4	.80	.50	.50	.50	.50	1.5	1,000	220	285	285	148
25	4.0	.80	.50	.50	.50	.50	1.6	1,200	166	204	258	146
26	3.6	.70	.50	.50	.50	.50	1.8	1,300	124	158	256	150
27	3.4	.70	.50	.50	.50	.50	2.0	1,300	94	127	288	146
28	3.2	.70	.50	.50	.50	.50	2.2	1,100	76	247	268	146
29	2.9	.70	.50	.50	------	.50	2.5	900	61	1,040	236	142
30	2.7	.70	.50	.50	------	.50	2.8	750	55	930	212	133
31	2.5	------	.50	.50	------	.50	------	620	------	588	188	------
TOTAL	551.4	37.10	16.70	15.50	14.00	15.50	31.20	19,497.5	9,539	16,013	23,210	10,135
MEAN	17.8	1.24	.54	.50	.50	.50	1.04	629	318	517	749	338
MAX	80	2.4	.70	.50	.50	.50	2.8	1,300	1,000	2,630	4,200	1,470
MIN	2.5	.70	.50	.50	.50	.50	.50	3.2	55	52	188	133
CFSM	.03	.002	.0008	.0008	.0008	.0008	.002	.95	.48	.78	1.13	.51
IN.	.03	.002	0	0	0	0	.001	1.10	.54	.90	1.30	.57
AC-FT	1,090	74	33	31	28	31	62	38,670	18,920	31,760	46,040	20,100

WTR YR 1971 TOTAL 79,075.90 MEAN 217 MAX 4,200 MIN .50 CFSM .33 IN 4.44 AC-FT 156,800

15470000 Chisana River at Northway Junction

LOCATION.--Lat 63°00'23", long 141°48'17", in SE¼ sec.9, T.14 N., R.19 E., near left bank on downstream side of bridge on highway from Northway Junction to Northway, 0.3 mile southwest of Northway Junction, and 4 miles upstream from Nabesna River.

DRAINAGE AREA.--3,280 sq mi, approximately.

PERIOD OF RECORD.--July 1949 to current year. Prior to October 1959, published as Tanana River at Northway Junction.

GAGE.--Nonrecording gage. Datum of gage is 1,682.85 ft above mean sea level.

AVERAGE DISCHARGE.--22 years, 2,337 cfs (9.68 inches per year, 1,693,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge observed, 8,140 cfs July 17 (gage height, 11.31 ft); minimum daily, 740 cfs Mar. 11 to Apr. 20.
Period of record: Maximum discharge observed, 12,000 cfs June 28, 1964 (gage height, 13.18 ft); minimum not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,960	1,100	900	860	800	760	740	1,300	3,010	3,330	6,740	3,810
2	1,900	1,100	900	860	800	760	740	1,400	3,050	3,160	6,850	3,780
3	1,830	1,100	900	860	800	760	740	1,500	3,060	3,090	7,350	3,820
4	1,810	1,100	900	860	800	760	740	1,600	3,130	3,190	7,520	3,950
5	1,800	1,100	900	860	800	760	740	1,700	3,260	3,380	7,610	3,880
6	1,770	1,100	900	860	800	760	740	1,800	3,300	3,480	7,020	3,780
7	1,690	1,100	900	860	800	760	740	1,920	3,460	3,640	6,510	3,680
8	1,620	1,100	900	860	800	760	740	2,190	3,610	3,970	6,060	3,590
9	1,540	1,100	900	860	800	760	740	3,310	3,640	4,430	5,760	3,550
10	1,500	1,000	900	860	800	760	740	3,310	3,490	4,850	5,700	3,500
11	1,470	1,000	900	840	800	740	740	3,700	3,400	5,510	5,750	3,440
12	1,400	1,000	900	840	780	740	740	4,070	3,360	5,980	5,940	3,340
13	1,400	1,000	900	840	780	740	740	4,340	3,280	6,240	6,090	3,180
14	1,400	1,000	900	840	780	740	740	4,890	3,240	6,620	6,260	3,070
15	1,400	1,000	900	840	780	740	740	5,100	3,190	7,130	6,020	3,000
16	1,400	980	880	840	780	740	740	5,300	3,180	7,620	5,810	2,940
17	1,400	980	880	840	780	740	740	5,420	3,140	8,090	5,660	2,870
18	1,300	980	880	840	780	740	740	5,510	3,260	7,680	5,570	2,800
19	1,300	960	880	840	780	740	740	5,630	3,320	7,340	5,450	2,740
20	1,300	960	880	840	780	740	740	5,680	3,470	6,900	5,420	2,710
21	1,300	960	880	840	760	740	760	5,770	3,600	6,510	5,520	2,660
22	1,300	940	880	820	760	740	760	5,830	3,740	5,980	5,200	2,540
23	1,300	940	880	820	760	740	780	5,480	3,800	5,650	4,600	2,450
24	1,300	940	880	820	760	740	780	4,820	3,880	5,650	4,040	2,320
25	1,300	920	880	820	760	740	800	4,340	4,000	5,760	4,020	2,280
26	1,300	920	880	820	760	740	840	3,850	4,140	5,840	4,050	2,230
27	1,300	920	880	820	760	740	900	3,640	3,910	5,990	4,060	2,240
28	1,200	900	880	820	760	740	1,000	3,710	3,770	6,110	4,110	2,190
29	1,200	900	880	820	------	740	1,100	3,390	3,620	6,230	4,020	2,170
30	1,200	900	880	820	------	740	1,200	3,240	3,460	6,440	3,920	2,140
31	1,200	------	880	820	------	740	------	3,060	------	6,710	3,900	------
TOTAL	45,090	30,000	27,580	26,040	21,900	23,140	23,720	116,800	103,770	172,500	172,530	90,650
MEAN	1,455	1,000	890	840	782	746	791	3,768	3,459	5,565	5,565	3,022
MAX	1,960	1,100	900	860	800	760	1,200	5,830	4,140	8,090	7,610	3,950
MIN	1,200	900	880	820	760	740	740	1,300	3,010	3,090	3,900	2,140
CFSM	.44	.30	.27	.26	.24	.23	.24	1.15	1.05	1.70	1.70	.92
IN.	.51	.34	.31	.30	.25	.26	.27	1.32	1.18	1.96	1.96	1.03
AC-FT	89,440	59,510	54,700	51,650	43,440	45,900	47,050	231,700	205,800	342,200	342,200	179,800

CAL YR 1970 TOTAL 743,033 MEAN 2,036 MAX 6,360 MIN 800 CFSM .62 IN 8.43 AC-FT 1,474,000
WTR YR 1971 TOTAL 853,720 MEAN 2,339 MAX 8,090 MIN 740 CFSM .71 IN 9.68 AC-FT 1,693,000

NOTE.--No gage-height record Oct. 12 to May 1.

15476000 Tanana River near Tanacross

LOCATION.--Lat 63°23'18", long 143°44'47", in NE¼ sec.31, T.19 N., R.9 E., on right bank, 0.2 mile north of Cathedral Rapids, 0.3 mile downstream from Cathedral Rapids Creek No. 1, 9 miles upstream from Robertson River, and 13 miles west of Tanacross.

DRAINAGE AREA.--8,550 sq mi, approximately.

PERIOD OF RECORD.--June 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,489.58 ft above mean sea level. Prior to June 13, 1959, on left bank at site 120 ft upstream at same datum.

AVERAGE DISCHARGE.--18 years, 7,868 cfs (12.50 inches per year, 5,700,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 35,300 cfs July 18 (gage height, 11.21 ft); minimum daily, 1,800 cfs Dec. 17 to Apr. 10.
Period of record: Maximum discharge, 39,100 cfs June 19, 1962 (gage height, 11.65 ft); minimum not determined.

REMARKS.--Records poor. Some diurnal fluctuation caused by glacier melt at the source.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,630	3,400	2,200	1,800	1,800	1,800	1,800	3,000	9,600	16,800	27,000	12,900
2	6,550	3,300	2,200	1,800	1,800	1,800	1,800	3,500	9,800	16,700	28,600	12,500
3	6,280	3,200	2,200	1,800	1,800	1,800	1,800	3,900	10,000	14,700	31,100	12,600
4	5,950	3,200	2,100	1,800	1,800	1,800	1,800	4,300	11,000	13,600	32,300	13,000
5	5,760	3,100	2,100	1,800	1,800	1,800	1,800	4,700	12,000	12,700	32,700	13,600
6	5,560	3,000	2,100	1,800	1,800	1,800	1,800	5,200	13,000	13,400	32,400	13,400
7	5,590	3,000	2,100	1,800	1,800	1,800	1,800	6,600	15,000	14,400	31,900	12,700
8	5,520	2,900	2,100	1,800	1,800	1,800	1,800	7,200	16,000	13,800	30,400	11,900
9	5,300	2,900	2,000	1,800	1,800	1,800	1,800	9,000	16,000	14,400	25,300	11,200
10	5,660	2,800	2,000	1,800	1,800	1,800	1,800	9,800	16,000	15,100	23,200	10,700
11	5,280	2,800	2,000	1,800	1,800	1,800	1,850	10,000	15,500	16,200	27,200	10,300
12	5,080	2,700	1,900	1,800	1,800	1,800	1,850	11,000	15,000	17,800	31,400	10,000
13	5,080	2,700	1,900	1,800	1,800	1,800	1,850	12,000	14,500	19,700	33,600	10,000
14	4,800	2,700	1,900	1,800	1,800	1,800	1,900	12,500	14,000	21,600	33,900	10,700
15	4,700	2,600	1,900	1,800	1,800	1,800	1,900	12,100	13,500	24,900	32,000	10,100
16	4,600	2,600	1,900	1,800	1,800	1,800	1,900	11,400	13,000	29,200	28,500	10,700
17	4,500	2,600	1,800	1,800	1,800	1,800	1,900	10,400	13,500	31,600	24,600	11,400
18	4,400	2,600	1,800	1,800	1,800	1,800	1,900	9,700	13,500	33,800	21,300	10,600
19	4,300	2,500	1,800	1,800	1,800	1,800	2,000	9,610	14,000	33,000	20,000	9,940
20	4,200	2,500	1,800	1,800	1,800	1,800	2,000	10,400	15,000	28,600	18,200	9,580
21	4,100	2,500	1,800	1,800	1,800	1,800	2,100	10,300	15,500	25,700	17,500	9,430
22	4,000	2,500	1,800	1,800	1,800	1,800	2,100	10,000	16,000	25,400	17,400	8,380
23	3,900	2,500	1,800	1,800	1,800	1,800	2,200	10,000	17,000	25,400	17,900	8,380
24	3,800	2,400	1,800	1,800	1,800	1,800	2,200	9,910	17,500	24,000	17,100	8,830
25	3,800	2,400	1,800	1,800	1,800	1,800	2,300	9,880	18,000	21,900	16,900	9,250
26	3,700	2,400	1,800	1,800	1,800	1,800	2,400	10,100	18,000	20,600	16,500	9,040
27	3,600	2,300	1,800	1,800	1,800	1,800	2,500	10,000	18,000	21,000	16,100	8,980
28	3,600	2,300	1,800	1,800	1,800	1,800	2,600	10,100	17,500	23,500	16,900	8,320
29	3,500	2,300	1,800	1,800	------	1,800	2,700	9,970	17,000	26,400	15,700	7,810
30	3,500	2,200	1,800	1,800	------	1,800	2,800	9,850	17,000	28,600	14,600	7,660
31	3,400	------	1,800	1,800	------	1,800	------	9,600	------	29,200	13,600	------
TOTAL	146,640	80,900	59,600	55,800	50,400	55,800	60,950	276,020	441,400	673,700	745,800	313,900
MEAN	4,730	2,697	1,923	1,800	1,800	1,800	2,032	8,904	14,710	21,730	24,060	10,460
MAX	6,630	3,400	2,200	1,800	1,800	1,800	2,800	12,500	18,000	33,800	33,900	13,600
MIN	3,400	2,200	1,800	1,800	1,800	1,800	1,800	3,000	9,600	12,700	13,600	7,660
CFSM	.55	.32	.22	.21	.21	.21	.24	1.04	1.72	2.54	2.81	1.22
IN.	.64	.35	.26	.24	.22	.24	.27	1.20	1.92	2.93	3.24	1.37
AC-FT	290,900	160,500	118,200	110,700	99,970	110,700	120,900	547,500	875,500	1,336M	1,479M	622,600

CAL YR 1970 TOTAL 2,217,500 MEAN 6,075 MAX 23,300 MIN 1,800 CFSM .71 IN 9.65 AC-FT 4,398,000
WTR YR 1971 TOTAL 2,960,910 MEAN 8,112 MAX 33,900 MIN 1,800 CFSM .95 IN 12.88 AC-FT 5,873,000

NOTE.--No gage-height record Nov. 7 to May 14, May 31 to June 30.
M.--Expressed in thousands.

15478040 Phelan Creek near Paxson
(International Hydrological Decade River Station)

LOCATION.--Lat 63°14'27", long 145°28'03", in SW¼ sec.28, T.19 S., R.12 E., on left bank approximately one mile downstream from terminus of Gulkana Glacier, and 14.5 miles north of Paxson.

DRAINAGE AREA.--12.2 sq mi.

PERIOD OF RECORD.--October 1966 to current year. Prior to October 1968, published as Gulkana Creek near Paxson.

GAGE.--Water-stage recorder. Altitude of gage is 3,700 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 66.9 cfs (74.46 inches per year, 48,470 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 1,480 cfs Aug. 9 (gage height, 11.62 ft); minimum daily, 4.0 cfs Feb. 2 to May 23.
Period of record: Maximum discharge, 2,320 cfs Aug. 13, 1967 (gage height, 11.51 ft) from rating curve extended above 900 cfs; maximum gage height, 14.7 ft early June 1967 (flow over ice); minimum discharge not determined.

REMARKS.--Records poor. Large fluctuations from ice melt and alternate damming and storage release during melt season. A recording air temperature and precipitation gage at 4,800 ft altitude, a recording air temperature gage at 6,900 ft altitude, five storage precipitation gages between 3,700 ft and 6,400 ft altitude, plus 30 snow and ice balance measurement stakes, are located in the basin. Combined snow, ice, and water balances of the basin are published in other reports of the Geological Survey.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	7.0	5.4	4.5	4.1	4.0	4.0	4.0	9.0	32	736	238
2	9.6	7.0	5.4	4.4	4.0	4.0	4.0	4.0	8.0	19	784	332
3	9.4	6.8	5.2	4.4	4.0	4.0	4.0	4.0	7.0	33	655	136
4	9.4	6.8	5.2	4.4	4.0	4.0	4.0	4.0	6.0	66	420	98
5	9.2	6.8	5.2	4.4	4.0	4.0	4.0	4.0	30	115	300	88
6	9.0	6.6	5.2	4.4	4.0	4.0	4.0	4.0	60	139	400	80
7	9.0	6.6	5.0	4.4	4.0	4.0	4.0	4.0	50	141	450	67
8	8.8	6.6	5.0	4.4	4.0	4.0	4.0	4.0	40	178	732	46
9	8.8	6.6	5.0	4.3	4.0	4.0	4.0	4.0	30	254	922	42
10	8.6	6.4	5.0	4.3	4.0	4.0	4.0	4.0	100	300	700	39
11	8.6	6.4	4.9	4.3	4.0	4.0	4.0	4.0	90	264	480	38
12	8.4	6.4	4.9	4.3	4.0	4.0	4.0	4.0	80	254	390	33
13	8.4	6.2	4.9	4.3	4.0	4.0	4.0	4.0	70	480	350	32
14	8.4	6.2	4.8	4.2	4.0	4.0	4.0	4.0	60	680	220	31
15	8.2	6.2	4.8	4.2	4.0	4.0	4.0	4.0	80	545	200	26
16	8.2	6.2	4.8	4.2	4.0	4.0	4.0	4.0	100	525	220	33
17	8.0	6.2	4.8	4.2	4.0	4.0	4.0	4.0	80	550	240	28
18	8.0	6.0	4.8	4.2	4.0	4.0	4.0	4.0	100	324	250	12
19	7.8	6.0	4.7	4.2	4.0	4.0	4.0	4.0	150	254	220	12
20	7.8	6.0	4.7	4.2	4.0	4.0	4.0	4.0	160	308	210	11
21	7.8	6.0	4.7	4.2	4.0	4.0	4.0	4.0	175	241	200	11
22	7.6	5.8	4.7	4.2	4.0	4.0	4.0	4.0	575	186	216	10
23	7.6	5.8	4.7	4.2	4.0	4.0	4.0	4.0	416	134	234	9.6
24	7.4	5.8	4.7	4.2	4.0	4.0	4.0	5.0	360	203	248	9.0
25	7.4	5.8	4.6	4.2	4.0	4.0	4.0	8.0	340	268	241	8.4
26	7.2	5.6	4.6	4.2	4.0	4.0	4.0	12	238	472	244	8.0
27	7.2	5.6	4.6	4.1	4.0	4.0	4.0	15	216	460	172	7.6
28	7.2	5.6	4.6	4.1	4.0	4.0	4.0	15	238	468	151	7.2
29	7.0	5.4	4.5	4.1	------	4.0	4.0	12	234	304	156	6.8
30	7.0	5.4	4.5	4.1	------	4.0	4.0	10	100	172	149	6.6
31	7.0	------	4.5	4.1	------	4.0	------	10	------	261	162	------
TOTAL	253.8	185.8	150.4	131.9	112.1	124.0	120.0	179.0	4,202.0	8,630	11,052	1,506.2
MEAN	8.19	6.19	4.85	4.25	4.00	4.00	4.00	5.77	140	278	357	50.2
MAX	9.8	7.0	5.4	4.5	4.1	4.0	4.0	15	575	680	922	332
MIN	7.0	5.4	4.5	4.1	4.0	4.0	4.0	4.0	6.0	19	149	6.6
CFSM	.67	.51	.40	.35	.33	.33	.33	.47	11.5	22.8	29.3	4.11
IN.	.77	.57	.46	.40	.34	.38	.37	.55	12.81	26.31	33.70	4.59
AC-FT	503	369	298	262	222	246	238	355	8,330	17,120	21,920	2,990

CAL YR 1970 TOTAL 17,181.8 MEAN 47.1 MAX 467 MIN 1.7 CFSM 3.86 IN 52.39 AC-FT 34,080
WTR YR 1971 TOTAL 26,647.2 MEAN 73.0 MAX 922 MIN 4.0 CFSM 5.98 IN 81.25 AC-FT 52,850

NOTE.--No gage-height record Oct. 1 to June 20.

15481000 Tanana River near Harding Lake

LOCATION.--Lat 64°24'04", long 146°56'56", in NE¼ sec.16, T.6 S., R.4 E., on right bank 6 miles upstream from Salcha River, 2 miles southwest of Harding Lake, and 38 miles southeast of Fairbanks.

DRAINAGE AREA.--17,240 sq mi.

PERIOD OF RECORD.--May 1968 to current year (gage heights only).

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (from topographic map).

EXTREMES.--Current year: Maximum recorded gage height, 16.74 ft July 15, but may have been higher during periods of no gage-height record, July 16-18; minimum gage height not determined.

Period of record: Maximum recorded gage height, 16.74 ft July 15, 1971, but may have been higher during period of no gage-height record, July 16-18, 1971; minimum gage height not determined.

Flood in August 1967 reached a gage height of 18.1 ft, from floodmarks.

REMARKS.--Records poor.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							-	13.39	12.34	13.68	13.79	10.91
2							-	13.37	12.33	12.98	14.55	11.05
3							-	12.67	12.33	12.78	14.92	11.19
4							-	13.95	12.11	12.91	14.65	11.19
5							-	11.42	12.10	13.06	14.12	10.99
6							-	10.15	12.54	13.23	13.84	10.89
7							-	10.57	13.28	13.26	13.81	10.78
8							-	10.76	13.81	13.29	13.80	10.51
9							-	10.88	14.12	13.74	14.01	10.30
10							-	11.02	14.06	13.94	14.74	10.17
11							-	11.27	14.37	14.24	15.61	10.06
12							-	11.88	14.45	14.31	15.55	9.95
13							-	12.37	14.44	14.77	15.00	9.92
14							-	12.85	14.09	15.68	14.61	9.92
15							-	13.04	14.09	16.21	14.15	9.93
16							-	13.16	13.67	16.29	13.75	9.93
17							-	12.95	13.33	16.11	13.30	9.93
18							-	12.69	13.06	15.07	12.86	9.93
19							-	12.51	13.24	14.17	12.52	9.93
20							-	12.75	13.24	14.16	13.03	9.93
21							-	12.94	13.49	14.21	13.01	9.93
22							-	12.75	14.02	13.94	12.29	9.93
23							-	12.59	14.44	13.44	11.72	9.93
24							-	12.52	14.64	13.15	12.20	9.93
25							-	12.44	14.30	13.11	12.02	9.93
26							-	12.44	14.01	13.42	11.87	9.93
27							-	12.44	13.80	13.91	12.02	9.93
28							-	12.44	13.67	14.05	11.62	9.93
29					------		-	12.44	13.90	14.14	11.24	9.92
30					------		13.46	12.44	13.97	13.73	11.05	-
31		------			------		------	12.44	------	13.50	10.91	------
MEAN								12.31	13.57	14.02	13.31	
MAX								13.95	14.64	16.29	15.61	
MIN								10.15	12.10	12.78	10.91	

15484000 Salcha River near Salchaket

LOCATION.--Lat 64°28'22", long 146°55'26", in NE¼ sec.22, T.5 S., R.4 E., on right bank, 0.2 mile upstream from bridge on Richardson Highway, 0.5 mile east of Aurora Lodge, 2 miles upstream from mouth, and 6 miles southeast of Salchaket.

DRAINAGE AREA.--2,170 sq mi, approximately.

PERIOD OF RECORD.--July 1909 to August 1910, published as "at mouth" (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.85 ft above mean sea level. Prior to Aug. 10, 1910, nonrecording gage at site 1.5 miles downstream at different datum. Oct. 1, 1948 to Apr. 24, 1953, nonrecording gage, and Apr. 25, 1953 to Oct. 16, 1967, water-stage recorder at site 800 ft downstream at same datum.

AVERAGE DISCHARGE.--23 years (1948-71), 1,768 cfs (11.06 inches per year, 1,281,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,300 cfs May 7 (gage height, 14.15 ft); minimum daily, 300 cfs Feb. 1 to Apr. 19.
Period of record: Maximum discharge, 97,000 cfs Aug. 14, 1967 (gage height, 21.78 ft, present site), from two-section slope-area and slope-conveyance determination; minimum not determined.

REMARKS --Records fair except those for Oct. 1 to May 5, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECCNO, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	580	420	330	300	300	300	900	9,300	1,640	2,190	2,280
2	1,200	580	420	330	300	300	300	1,000	12,800	1,620	2,140	2,200
3	1,100	560	420	330	300	300	300	1,300	8,970	1,800	2,430	2,360
4	1,100	560	410	330	300	300	300	1,700	5,960	2,030	2,630	3,040
5	1,000	560	410	330	300	300	300	2,500	6,460	1,970	3,160	3,800
6	940	540	410	330	300	300	300	5,480	9,600	2,250	3,610	3,720
7	920	540	400	330	300	300	300	14,100	13,700	2,140	3,200	3,320
8	900	540	400	320	300	300	300	15,900	14,700	1,850	3,130	2,930
9	880	520	400	320	300	300	300	12,300	11,100	1,680	3,990	2,650
10	840	520	390	320	300	300	300	10,300	8,940	1,950	5,990	2,500
11	800	520	390	320	300	300	300	9,000	8,420	1,830	10,500	2,360
12	780	500	390	320	300	300	300	6,000	7,030	1,670	9,670	2,270
13	780	500	380	320	300	300	300	9,000	5,100	2,100	6,570	2,140
14	760	500	380	320	300	300	300	10,500	4,920	5,120	5,200	2,020
15	760	490	380	310	300	300	300	7,910	4,550	9,570	4,390	1,940
16	740	490	370	310	300	300	300	6,700	3,800	6,620	3,820	1,830
17	740	480	370	310	300	300	300	6,680	3,660	4,530	3,400	1,770
18	720	480	370	310	300	300	300	6,860	3,530	3,510	3,060	1,700
19	720	470	360	310	300	300	300	8,200	3,060	2,880	2,810	1,670
20	700	470	360	310	300	300	310	9,970	2,980	2,500	2,740	1,630
21	680	460	360	310	300	300	320	9,470	3,510	2,270	2,860	1,580
22	680	460	350	310	300	300	330	9,050	4,940	2,110	2,910	1,540
23	660	460	350	310	300	300	340	8,660	5,330	2,010	2,820	1,490
24	660	450	350	310	300	300	360	7,540	4,060	1,910	2,670	1,460
25	640	450	340	310	300	300	380	7,900	3,490	1,760	2,740	1,490
26	640	440	340	310	300	300	400	9,950	2,840	1,660	3,280	1,580
27	620	440	340	310	300	300	450	12,400	2,440	1,590	3,360	1,750
28	620	430	340	310	300	300	500	14,900	2,140	1,530	3,110	1,840
29	600	430	330	310	------	300	600	12,200	1,950	1,580	2,820	1,730
30	600	430	330	310	------	300	700	15,400	1,760	1,870	2,590	1,660
31	600	------	330	310	------	300	------	10,300	------	2,300	2,400	------
TOTAL	24,580	14,850	11,590	9,820	8,400	9,300	10,390	264,070	181,040	79,850	116,190	64,250
MEAN	793	495	374	317	300	300	346	8,518	6,035	2,576	3,748	2,142
MAX	1,200	580	420	330	300	300	700	15,900	14,700	9,570	10,500	3,800
MIN	600	430	330	310	300	300	300	900	1,760	1,530	2,140	1,460
CFSM	.37	.23	.17	.15	.14	.14	.16	3.93	2.78	1.19	1.73	.99
IN.	.42	.25	.20	.17	.14	.16	.18	4.53	3.10	1.37	1.99	1.10
AC-FT	48,750	29,450	22,990	19,480	16,660	18,450	20,610	523,800	359,100	158,400	230,500	127,400

CAL YR 1970 TOTAL 428,250 MEAN 1,173 MAX 5,460 MIN 65 CFSM .54 IN 7.34 AC-FT 849,400
WTR YR 1971 TOTAL 794,330 MEAN 2,176 MAX 15,900 MIN 300 CFSM 1.00 IN 13.62 AC-FT 1,576,000

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-07	1400	14.15	23,300	6-02	2130	12.53	13,900
5-14	1930	12.11	13,000	6-06	0330	13.22	17,300
5-20	2030	11.95	11,200	7-15	1300	11.47	10,500
5-28	0300	13.08	16,200	8-11	1900	11.85	12,000

NOTE.--No gage-height record Oct. 20 to Apr. 18.

15484000 Salcha River near Salchaket--(continued)

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-	-					-	8.61	11.31	7.72	8.13	8.28
2	-	-					-	8.59	12.25	7.70	8.09	8.23
3	-	-					-	8.75	11.16	7.85	8.28	8.32
4	-	-					-	9.05	10.14	8.02	8.40	8.70
5	-	-					-	9.46	10.34	7.98	8.70	9.09
6	7.11	-					-	9.76	11.37	8.17	8.94	9.05
7	7.14	-					-	12.09	12.44	8.09	8.72	8.85
8	7.39	-					-	12.77	12.62	7.89	8.69	8.67
9	7.49	-					-	11.93	11.67	7.75	9.12	8.52
10	7.47	-					-	11.40	11.07	7.96	9.95	8.41
11	7.36	-					-	11.01	10.87	7.87	11.45	8.33
12	7.25	-					-	9.57	10.36	7.74	11.21	8.27
13	7.21	-					-	11.03	9.60	8.06	10.22	8.20
14	7.22	-					-	11.47	9.53	9.58	9.69	8.13
15	7.23	-					-	10.67	9.37	11.19	9.35	8.07
16	7.18	-					-	10.23	9.02	10.19	9.10	8.00
17	7.08	-					-	10.26	8.96	9.36	8.89	7.95
18	7.80	-					-	10.42	8.89	8.88	8.72	7.90
19	9.07	-					7.99	10.95	8.65	8.55	8.58	7.87
20	-	-					7.98	11.59	8.61	8.33	8.54	7.84
21	-	-					7.98	11.44	8.89	8.18	8.61	7.80
22	-	-					8.00	11.31	9.53	8.07	8.64	7.76
23	-	-					8.03	11.19	9.70	8.01	8.58	7.72
24	-	-					8.07	10.80	9.15	7.93	8.50	7.70
25	-	-					8.14	10.91	8.88	7.82	8.53	7.72
26	-	-					8.27	11.53	8.53	7.73	8.83	7.80
27	-	-					8.54	12.19	8.29	7.68	8.87	7.94
28	-	-					8.68	12.79	8.09	7.63	8.75	8.00
29	-	-			------		8.77	12.13	7.96	7.67	8.59	7.92
30	-	-			------		8.79	12.89	7.81	7.90	8.46	7.87
31	-	------			------		------	11.58	------	8.20	8.36	------
MEAN								10.92	9.84	8.25	8.95	8.16
MAX								12.89	12.62	11.19	11.45	9.09
MIN								8.59	7.81	7.63	8.09	7.70

NOTE --Gage height result of backwater from ice Oct. 6-19 and Apr. 19 to May 5.

15493000 Chena River near Two Rivers

LOCATION.--Lat 64°53'55", long 146°24'42", in SW¼ sec.19, T.1 N., R.7 E., on downstream side of bridge near mid-span at mile 40 on the Chena Hot Springs Highway, and 39 miles east of Fairbanks.

DRAINAGE AREA.--941 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (Alaska Department of Highways TBM).

EXTREMES.--Current year: Maximum discharge, 8,760 cfs May 27 (gage height, 19.54 ft); minimum daily, 130 cfs Mar. 16 to Apr. 18.
Period of record: Maximum discharge, 10,800 cfs Aug. 5 (correction), 1969 (gage height, 19.99 ft); minimum daily, 20 cfs Feb. 6 to Mar. 12, 1970.
A flood in August 1967 reached a stage of 26.6 ft, from floodmarks.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	700	350	220	190	180	150	130	230	6,280	774	678	1,210
2	669	340	220	190	180	150	130	250	5,850	759	805	1,190
3	633	330	210	190	170	150	130	280	4,330	763	991	1,300
4	607	330	210	180	170	140	130	320	3,950	754	1,040	1,570
5	559	320	210	180	170	140	130	420	4,370	961	1,240	1,910
6	500	320	210	180	160	140	130	647	5,080	1,010	1,170	1,810
7	561	310	210	180	160	140	130	1,050	5,290	829	1,160	1,620
8	600	310	210	180	160	140	130	1,510	4,760	741	1,580	1,470
9	580	300	200	180	160	140	130	1,660	3,980	721	2,760	1,360
10	560	300	200	180	160	140	130	1,610	3,800	702	5,860	1,280
11	550	290	200	180	160	140	130	1,970	3,570	685	6,300	1,210
12	540	290	200	180	160	140	130	3,020	2,730	954	4,700	1,140
13	520	280	200	180	160	140	130	4,590	2,180	2,730	3,620	1,100
14	510	280	200	180	150	140	130	6,160	1,970	3,470	3,030	1,050
15	500	270	200	180	150	140	130	5,050	1,730	3,700	2,620	997
16	490	270	200	180	150	130	130	4,640	1,620	2,440	2,320	963
17	480	270	200	180	150	130	130	5,080	1,570	1,770	2,060	941
18	470	260	200	180	150	130	130	5,540	1,440	1,410	1,870	986
19	460	260	190	180	150	130	140	6,860	1,350	1,230	1,710	987
20	450	260	190	180	150	130	140	6,780	1,390	1,130	1,680	949
21	440	250	190	180	150	130	140	5,950	1,570	1,050	1,620	922
22	430	250	190	180	150	130	150	6,480	2,640	1,000	1,540	891
23	420	240	190	180	150	130	150	5,900	2,050	925	1,460	856
24	410	240	190	180	150	130	160	5,690	1,610	836	1,410	841
25	400	230	190	180	150	130	160	6,150	1,340	771	1,490	861
26	390	230	190	180	150	130	170	7,310	1,150	748	1,700	915
27	390	230	190	180	150	130	180	7,940	1,010	724	1,720	976
28	380	230	190	180	150	130	190	7,310	919	718	1,560	968
29	370	220	190	180	------	130	200	7,340	840	708	1,440	914
30	360	220	190	180	------	130	220	7,120	780	686	1,340	943
31	360	------	190	180	------	130	------	5,660	------	670	1,270	------
TOTAL	15,289	8,280	6,170	5,610	4,400	4,210	4,340	130,517	81,149	36,369	63,744	34,130
MEAN	493	276	199	181	157	136	145	4,210	2,705	1,173	2,056	1,138
MAX	700	350	220	190	180	150	220	7,940	6,280	3,700	6,300	1,910
MIN	360	220	190	180	150	130	130	230	780	670	678	841
CFSM	.52	.29	.21	.19	.17	.14	.15	4.47	2.87	1.25	2.18	1.21
IN.	.60	.33	.24	.22	.17	.17	.17	5.16	3.21	1.44	2.52	1.35
AC-FT	30,330	16,420	12,240	11,130	8,730	8,350	8,610	258,900	161,000	72,140	126,400	67,700

CAL YR 1970 TOTAL 179,297 MEAN 491 MAX 3,090 MIN 20 CFSM .52 IN 7.09 AC-FT 355,600
WTR YR 1971 TOTAL 394,208 MEAN 1,080 MAX 7,940 MIN 130 CFSM 1.15 IN 15.58 AC-FT 781,900

NOTE.--No gage-height record Oct. 8 to May 2.

15493000 Chena River near Two Rivers--(continued)

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.81						-	-	18.71	15.47	15.36	15.67
2	15.77						-	-	18.52	15.45	15.50	15.66
3	15.72						-	14.73	17.82	15.46	15.69	15.75
4	15.68						-	14.81	17.63	15.45	15.74	15.97
5	15.60						-	15.00	17.83	15.65	15.90	16.22
6	15.50						-	15.32	18.18	15.70	15.84	16.15
7	15.60						-	15.74	18.28	15.53	15.83	16.01
8	-						-	16.12	18.03	15.43	16.18	15.90
9	-						-	16.24	17.64	15.41	16.93	15.80
10	-						-	16.21	17.55	15.39	18.47	15.73
11	-						-	16.46	17.43	15.37	18.64	15.67
12	-						-	17.13	16.96	15.64	17.90	15.62
13	-						-	17.94	16.61	16.95	17.34	15.59
14	-						-	18.66	16.46	17.38	16.99	15.54
15	-						-	18.17	16.29	17.50	16.72	15.50
16	-						-	17.97	16.22	16.77	16.49	15.46
17	-						-	18.18	16.17	16.32	16.33	15.44
18	-						-	18.39	16.07	16.04	16.19	15.49
19	-						-	18.94	15.99	15.89	16.08	15.49
20	-						-	18.91	16.02	15.81	16.06	15.45
21	-						-	18.57	16.17	15.74	16.02	15.42
22	-						-	18.79	16.90	15.70	15.95	15.39
23	-						-	18.55	16.52	15.63	15.88	15.36
24	-						-	18.46	16.20	15.54	15.84	15.34
25	-						-	18.66	15.98	15.47	15.91	15.36
26	-						-	19.11	15.83	15.44	16.07	15.42
27	-						-	19.32	15.71	15.42	16.09	15.48
28	-						-	19.11	15.62	15.41	15.97	15.47
29	-				------		-	19.14	15.54	15.40	15.87	15.41
30	-				------		-	19.03	15.48	15.37	15.79	15.44
31	-	------			------		------	18.45	------	15.36	15.73	------
MEAN									16.81	15.78	16.30	15.61
MAX									18.71	17.50	18.64	16.22
MIN									15.48	15.36	15.36	15.34

NOTE.--Gage heights result of backwater from ice May 3-5.

15511000 Little Chena River near Fairbanks

LOCATION.--Lat 64°53'10", long 147°14'50", in NE¼ sec.25, T.1 N., R.2 E., on downstream side of left bridge abutment at mile 12 on Chena Hot Springs Highway, and 14 miles northeast of Fairbanks.

DRAINAGE AREA.--356 sq mi.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs May 14 (gage height, 23.87 ft); minimum daily, 45 cfs Feb. 27 to Apr. 16.
Period of record: Maximum discharge, 17,000 cfs Aug. 13, 1967 (gage height, 31.95 ft), from rating curve extended above 3,000 cfs on basis of contracted-opening determination of peak flow; no flow Mar. 11 to Apr. 15, 1967.

REMARKS.--Records good except those for the period Oct. 4 to May 10, which are poor.

REVISIONS (WATER YEARS).--WRD Alaska, 1969: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	84	56	50	48	45	45	170	1,050	272	295	374
2	196	84	56	50	48	45	45	210	1,040	282	301	372
3	186	82	54	50	48	45	45	260	872	286	325	435
4	180	82	54	50	47	45	45	340	770	289	330	564
5	170	80	54	50	47	45	45	500	740	286	358	832
6	160	78	54	50	47	45	45	700	797	282	348	699
7	160	78	54	50	47	45	45	960	810	271	342	588
8	150	76	52	50	47	45	45	860	766	274	374	517
9	150	76	52	50	47	45	45	800	698	294	507	473
10	150	74	52	50	47	45	45	720	657	280	1,170	449
11	140	72	52	50	47	45	45	1,100	627	268	1,690	428
12	140	72	52	50	47	45	45	1,320	559	332	1,210	406
13	130	70	52	50	47	45	45	1,810	505	782	913	388
14	130	70	52	50	47	45	45	2,200	474	887	779	375
15	130	68	52	50	47	45	45	1,880	454	857	686	362
16	120	68	52	50	47	45	45	1,590	431	666	617	358
17	120	66	52	49	47	45	46	1,550	414	536	561	350
18	120	66	52	49	46	45	47	1,570	396	463	519	353
19	110	64	52	49	46	45	49	1,820	379	422	489	358
20	110	64	52	49	46	45	50	1,830	373	398	488	346
21	110	62	52	49	46	45	52	1,630	372	386	519	345
22	110	62	52	49	46	45	56	1,450	411	377	508	340
23	100	60	52	49	46	45	62	1,280	392	358	478	334
24	100	60	52	49	46	45	68	1,160	358	338	463	331
25	98	60	52	49	46	45	72	1,210	335	326	451	340
26	96	58	52	48	46	45	80	1,320	316	320	456	345
27	94	58	52	48	45	45	90	1,420	302	312	444	361
28	92	58	52	48	45	45	100	1,380	288	306	424	354
29	90	56	52	48	------	45	120	1,290	280	304	407	343
30	88	56	50	48	------	45	150	1,230	274	295	391	366
31	86	------	50	48	------	45	------	1,050	------	289	381	------
TOTAL	4,019	2,064	1,626	1,529	1,306	1,395	1,762	36,610	16,140	12,038	17,224	12,486
MEAN	130	68.8	52.5	49.3	46.6	45.0	58.7	1,181	538	388	556	416
MAX	203	84	56	50	48	45	150	2,200	1,050	887	1,690	832
MIN	86	56	50	48	45	45	45	170	274	268	295	331
CFSM	.37	.19	.15	.14	.13	.13	.16	3.32	1.51	1.09	1.56	1.17
IN.	.42	.22	.17	.16	.14	.15	.18	3.83	1.69	1.26	1.80	1.30
AC-FT	7,970	4,090	3,230	3,030	2,590	2,770	3,490	72,620	32,010	23,880	34,160	24,770

CAL YR 1970 TOTAL 46,608.0 MEAN 128 MAX 1,210 MIN 6.0 CFSM .36 IN 4.87 AC-FT 92,450
WTR YR 1971 TOTAL 108,199.0 MEAN 296 MAX 2,200 MIN 45 CFSM .83 IN 11.31 AC-FT 214,600

NOTE.--No gage-height record Nov. 6 to Apr. 14.

15511000 Little Chena River near Fairbanks--(continued)

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.05	12.53					-	13.06	17.39	12.55	12.56	13.21
2	12.01	12.51					-	13.40	17.33	12.61	12.60	13.20
3	11.93	12.48					-	13.66	16.28	12.64	12.76	13.59
4	12.06	12.41					-	14.77	15.63	12.66	12.79	14.37
5	12.28	12.37					-	16.65	15.44	12.64	12.97	16.02
6	12.25	-					-	18.11	15.79	12.61	12.91	15.18
7	12.40	-					-	19.43	15.88	12.54	12.87	14.52
8	12.99	-					-	19.20	15.60	12.56	13.07	14.10
9	12.72	-					-	17.94	15.18	12.69	13.89	13.83
10	12.08	-					-	17.51	14.93	12.60	17.99	13.68
11	11.99	-					-	17.72	14.75	12.52	20.87	13.55
12	12.27	-					-	18.95	14.35	12.95	18.32	13.41
13	12.52	-					-	21.52	14.03	15.64	16.54	13.30
14	12.25	-					-	23.57	13.84	16.24	15.68	13.22
15	12.14	-					12.90	21.88	13.71	16.04	15.10	13.14
16	12.14	-					13.17	20.36	13.57	14.82	14.69	13.11
17	12.14	-					13.18	20.17	13.46	14.07	14.36	13.06
18	12.06	-					13.34	20.25	13.35	13.63	14.11	13.08
19	12.09	-					13.47	21.58	13.25	13.37	13.93	13.11
20	12.10	-					13.56	21.65	13.21	13.22	13.93	13.04
21	12.21	-					13.71	20.56	13.20	13.15	14.11	13.03
22	12.27	-					13.79	19.62	13.44	13.09	14.05	13.00
23	12.38	-					13.80	18.75	13.32	12.97	13.86	12.96
24	12.48	-					13.75	18.08	13.11	12.85	13.77	12.94
25	12.56	-					13.51	18.32	12.96	12.77	13.70	13.00
26	12.58	-					12.92	18.93	12.84	12.73	13.72	13.03
27	12.58	-					12.71	19.47	12.75	12.67	13.65	13.13
28	12.58	-					12.98	19.24	12.65	12.63	13.53	13.09
29	12.59	-			------		12.88	18.80	12.60	12.62	13.42	13.02
30	12.59	-			------		12.87	18.44	12.56	12.56	13.32	13.16
31	12.55	------			------		------	17.42	------	12.52	13.25	------
MEAN	12.32							18.68	14.21	13.20	14.27	13.47
MAX	12.99							23.57	17.39	16.24	20.87	16.02
MIN	11.93							13.06	12.56	12.52	12.56	12.94

NOTE.--Gage heights result of backwater from ice Oct. 4 to Nov. 5 and Apr. 15 to May 10.

15514000 Chena River at Fairbanks

LOCATION.--Lat 64°50'45", long 147°42'04", in NW¼ sec.11, T.1 S., R.1 W., on right bank 800 ft upstream from bridge on Steese Highway (U.S. Highway 97) in Fairbanks, 0.3 mile upstream from Noyes Slough, 11 miles upstream from mouth, and 11 miles downstream from Chena Slough.

DRAINAGE AREA.--1,980 sq mi, approximately.

PERIOD OF RECORD.--July 1947 to September 1948 (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 422.92 ft above mean sea level. See WSP 1936 for history of changes prior to May 2, 1960. May 2, 1960 to Sept. 30, 1966, nonrecording gage at bridge 800 ft downstream at datum 0.20 ft lower. Oct. 1, 1966 to Apr. 27, 1968, nonrecording gage 800 ft downstream at same datum.

AVERAGE DISCHARGE.--23 years (1948-71), 1,507 cfs (10.34 inches per year, 1,092,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 11,300 cfs May 21 (gage height, 9.77 ft); minimum daily, 310 cfs Mar. 17 to Apr. 15.
Period of record: Maximum discharge, 74,400 cfs Aug. 15, 1967 (gage height, 18.82 ft, site then in use); minimum not determined.

REMARKS.--Records good. Records of chemical analyses, water temperature, and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the calendar year 1969, superseding those published in WRD, Alaska, 1970, are given below:

TOTAL 424,349 MEAN 1,163 MAX 10,700 MIN 180 CFSM 0.59 IN 7.98 AC-FT 842,600

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,420	700	480	400	400	330	310	700	8,290	1,750	1,660	2,390
2	1,370	680	480	400	400	330	310	800	8,050	1,720	1,650	2,350
3	1,330	680	470	400	400	320	310	1,000	7,920	1,710	1,720	2,350
4	1,270	660	470	400	400	320	310	1,240	6,280	1,690	1,880	2,530
5	1,140	660	460	400	400	320	310	1,680	5,450	1,680	1,980	3,070
6	1,120	640	460	400	400	320	310	2,500	5,480	1,690	2,160	3,470
7	1,100	640	450	400	390	320	310	3,420	6,040	1,800	2,270	3,340
8	1,100	620	450	400	390	320	310	4,030	6,340	1,750	2,270	3,100
9	1,100	620	440	400	380	320	310	3,900	6,000	1,680	2,530	2,890
10	1,050	620	440	400	380	320	310	3,570	5,250	1,640	3,570	2,720
11	1,050	600	430	400	370	320	310	3,240	4,870	1,610	6,350	2,600
12	1,050	600	430	400	370	320	310	3,820	4,620	1,600	7,920	2,480
13	1,000	600	420	400	360	320	310	5,380	4,080	1,830	6,920	2,370
14	1,000	580	420	400	360	320	310	7,990	3,590	3,080	5,550	2,280
15	1,000	580	410	400	360	320	310	9,910	3,280	4,300	4,780	2,210
16	980	580	410	400	350	320	320	9,080	3,040	4,800	4,250	2,140
17	960	560	400	400	350	310	320	8,510	2,850	4,000	3,850	2,080
18	940	560	400	400	350	310	320	9,240	2,720	3,320	3,530	2,030
19	920	540	400	400	350	310	320	9,700	2,590	2,890	3,290	2,030
20	900	540	400	400	350	310	320	10,900	2,440	2,610	3,140	2,020
21	880	540	390	400	350	310	330	11,300	2,370	2,430	3,040	1,980
22	860	520	390	400	350	310	340	10,400	2,390	2,300	3,030	1,940
23	840	520	390	400	340	310	360	9,820	2,840	2,190	2,940	1,900
24	820	520	390	400	340	310	390	9,140	2,900	2,090	2,820	1,870
25	800	520	390	400	330	310	420	8,500	2,580	1,990	2,720	1,850
26	780	520	390	400	330	310	460	8,750	2,350	1,900	2,690	1,850
27	760	500	390	400	330	310	500	9,520	2,160	1,830	2,760	1,880
28	740	500	390	400	330	310	520	10,100	2,020	1,770	2,800	1,950
29	740	500	390	400	------	310	560	10,200	1,910	1,730	2,700	1,990
30	720	500	390	400	------	310	600	9,760	1,830	1,700	2,580	2,010
31	720	------	390	400	------	310	------	9,770	------	1,680	2,480	------
TOTAL	30,460	17,400	13,010	12,400	10,210	9,790	10,730	207,870	122,530	68,760	101,830	69,670
MEAN	983	580	420	400	365	316	358	6,705	4,084	2,218	3,285	2,322
MAX	1,420	700	480	400	400	330	600	11,300	8,290	4,800	7,920	3,470
MIN	720	500	390	400	330	310	310	700	1,830	1,600	1,650	1,850
CFSM	.50	.29	.21	.20	.18	.16	.18	3.39	2.06	1.12	1.66	1.17
IN.	.57	.33	.24	.23	.19	.18	.20	3.91	2.30	1.29	1.91	1.31
AC-FT	60,420	34,510	25,810	24,600	20,250	19,420	21,280	412,300	243,000	136,400	202,000	138,200

CAL YR 1970 TOTAL 329,134 MEAN 902 MAX 3,570 MIN 180 CFSM .46 IN 6.18 AC-FT 652,800
WTR YR 1971 TOTAL 674,660 MEAN 1,848 MAX 11,300 MIN 310 CFSM .93 IN 12.68 AC-FT 1,338,000

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G.HT.	DISCHARGE	DATE	TIME	G.HT.	DISCHARGE
5-15	1800	9.33	10,200	6-08	1400	6.58	6,450
5-21	0030	9.77	11,300	8-12	1200	7.78	8,040
5-28	2300	9.22	10,400				

NOTE.--No gage-height record Oct. 17 to May 3.

15514000 Chena River at Fairbanks--(continued).

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.27							-	7.82	2.43	2.29	3.04
2	2.21							-	7.67	2.40	2.28	3.00
3	2.16							-	7.58	2.37	2.35	3.00
4	2.09							2.05	6.40	2.35	2.53	3.18
5	1.93							2.55	5.77	2.34	2.63	3.71
6	1.89							3.40	5.81	2.36	2.81	4.08
7	1.87							4.27	6.25	2.47	2.92	3.97
8	1.92							4.79	6.50	2.41	2.92	3.75
9	1.98							4.65	6.25	2.34	3.18	3.54
10	2.03							4.34	5.65	2.29	4.18	3.37
11	1.99							4.02	5.32	2.24	6.54	3.25
12	1.95							4.52	5.10	2.24	7.70	3.13
13	1.93							5.88	4.62	2.49	6.99	3.02
14	1.94							7.82	4.18	3.74	5.95	2.93
15	1.89							9.14	3.91	4.85	5.28	2.86
16	1.86							8.56	3.70	5.31	4.79	2.79
17	-							8.12	3.52	4.58	4.43	2.73
18	-							8.39	3.40	3.96	4.14	2.68
19	-							8.70	3.28	3.54	3.92	2.68
20	-							9.47	3.14	3.26	3.79	2.67
21	-							9.73	3.08	3.08	3.69	2.63
22	-							9.15	3.14	2.95	3.68	2.59
23	-							8.80	3.56	2.85	3.59	2.55
24	-							8.35	3.62	2.74	3.47	2.52
25	-							7.90	3.29	2.64	3.37	2.49
26	-							8.09	3.06	2.54	3.34	2.50
27	-							8.64	2.87	2.47	3.41	2.53
28	-							9.06	2.73	2.41	3.45	2.60
29	-				------			9.12	2.61	2.36	3.35	2.64
30	-				------			8.83	2.52	2.33	3.23	2.66
31	-	------			------		------	8.85	------	2.31	3.13	------
MEAN									4.55	2.86	3.85	2.97
MAX									7.82	5.31	7.70	4.08
MIN									2.52	2.24	2.28	2.49

NOTE.--Gage-height result of backwater from ice Oct. 8-16.

15514500 Wood River near Fairbanks

LOCATION (revised).--Lat 64°26'06", long 148°12'46", in SE¼ sec.31, T.5 S., R.3 W., on right bank, 16.8 miles from mouth, and 32 miles southwest of Fairbanks.

DRAINAGE AREA.--855 sq mi.

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 530 ft (revised) (from topographic map).

EXTREMES.--Current year: Maximum daily discharge, 4,000 cfs Aug. 11; minimum daily, 130 cfs Nov. 15 to Mar. 24.
Period of record: Maximum daily discharge, 4,000 cfs Aug. 11, 1971; minimum daily, 120 cfs many days in 1969 and 1970.
Flood of August 1967 reached a stage of 11.8 ft, from floodmarks (discharge not determined).

REMARKS.--Records poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	428	150	130	130	130	130	140	170	420	1,290	980	854
2	416	150	130	130	130	130	140	170	400	957	1,100	999
3	368	150	130	130	130	130	140	170	400	782	1,280	971
4	304	140	130	130	130	130	140	180	410	740	1,200	1,030
5	280	140	130	130	130	130	140	180	570	720	1,000	1,030
6	260	140	130	130	130	130	140	190	872	740	1,200	1,010
7	250	140	130	130	130	130	140	200	1,380	760	1,500	944
8	240	140	130	130	130	130	140	210	1,650	800	1,600	896
9	220	140	130	130	130	130	140	220	1,600	880	2,000	854
10	210	140	130	130	130	130	150	230	1,780	940	3,400	830
11	210	140	130	130	130	130	150	240	2,120	1,100	4,000	794
12	200	140	130	130	130	130	150	260	2,550	1,400	1,800	755
13	190	140	130	130	130	130	150	280	2,620	2,140	1,400	725
14	190	140	130	130	130	130	150	300	1,300	2,600	1,200	700
15	180	130	130	130	130	130	150	320	818	1,700	1,000	680
16	180	130	130	130	130	130	150	340	685	1,400	860	670
17	180	130	130	130	130	130	150	370	750	1,100	780	655
18	170	130	130	130	130	130	150	400	715	1,050	720	640
19	170	130	130	130	130	130	150	450	755	1,020	700	630
20	170	130	130	130	130	130	150	500	938	980	790	620
21	170	130	130	130	130	130	160	540	1,530	940	900	635
22	160	130	130	130	130	130	160	600	2,520	900	1,200	660
23	160	130	130	130	130	130	160	700	2,080	840	1,000	655
24	160	130	130	130	130	130	160	800	2,630	760	950	655
25	160	130	130	130	130	140	160	800	2,240	820	880	660
26	160	130	130	130	130	140	160	800	1,890	940	840	660
27	160	130	130	130	130	140	160	740	1,300	1,000	800	675
28	150	130	130	130	130	140	160	660	1,070	960	780	660
29	150	130	130	130	------	140	160	560	1,210	840	790	645
30	150	130	130	130	------	140	160	500	2,000	800	820	680
31	150	------	130	130	------	140	------	450	------	820	830	------
TOTAL	6,546	4,070	4,030	4,030	3,640	4,100	4,510	12,530	41,203	32,719	38,300	22,872
MEAN	211	136	130	130	130	132	150	404	1,373	1,055	1,235	762
MAX	428	150	130	130	130	140	160	800	2,630	2,600	4,000	1,030
MIN	150	130	130	130	130	130	140	170	400	720	700	620
CFSM	.25	.16	.15	.15	.15	.15	.18	.47	1.61	1.23	1.44	.89
IN.	.28	.18	.18	.18	.16	.18	.20	.55	1.79	1.42	1.67	1.00
AC-FT	12,980	8,070	7,990	7,990	7,220	8,130	8,950	24,850	81,730	64,900	75,970	45,370

CAL YR 1970 TOTAL 147,982 MEAN 405 MAX 3,250 MIN 120 CFSM .47 IN 6.44 AC-FT 293,500
WTR YR 1971 TOTAL 178,550 MEAN 489 MAX 4,000 MIN 130 CFSM .57 IN 7.77 AC-FT 354,200

NOTE.--No gage-height record Oct. 5 to June 5, July 4 to Aug. 30, except occasional days.

15515500 Tanana River at Nenana

LOCATION.--Lat 64°33'55", long 149°05'30", in SE¼ sec.14, T.4 S., R.8 W., on left bank on east end of Alaska Railroad dock in Nenana, and 0.3 mile upstream from Nenana River.

DRAINAGE AREA.--25,600 sq mi (revised), approximately.

PERIOD OF RECORD.--May 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 338.50 ft above mean sea level. Prior to Mar. 10, 1965, on right bank 280 ft downstream from railroad bridge 0.5 mile upstream at same datum. Mar. 10, 1965 to Mar. 23, 1968, nonrecording gage on railroad bridge 0.5 mile upstream at same datum.

AVERAGE DISCHARGE.--9 years, 24,290 cfs (12.88 inches per year, 17,600,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 98,700 cfs Aug. 12 (gage height, 12.88 ft); minimum daily, 6,000 cfs Mar. 1-31.
Period of record: Maximum discharge, 186,000 cfs Aug. 18, 1967 (gage height, 18.90 ft, site then in use); minimum not determined.
Flood of May 1948 reached a stage of 15.9 ft (discharge, about 135,000 cfs), contained in reports of Corps of Engineers.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20,700	11,000	8,400	7,000	6,200	6,000	6,200	20,000	50,600	57,300	55,900	42,900
2	20,200	11,000	8,400	7,000	6,200	6,000	6,200	22,000	48,600	49,100	60,100	43,000
3	19,400	11,000	8,200	7,000	6,200	6,000	6,200	24,000	50,200	42,700	68,200	44,400
4	18,600	11,000	8,200	7,000	6,200	6,000	6,200	27,000	47,500	40,100	72,500	45,200
5	18,500	10,000	8,200	6,800	6,200	6,000	6,200	32,000	43,800	40,900	71,400	45,100
6	18,300	10,000	8,000	6,800	6,200	6,000	6,200	36,000	44,900	41,900	66,200	44,400
7	16,800	10,000	8,000	6,800	6,200	6,000	6,200	43,000	49,900	43,200	65,400	43,100
8	16,300	10,000	8,000	6,800	6,200	6,000	6,200	49,000	55,500	44,000	66,600	40,700
9	16,600	10,000	8,000	6,800	6,200	6,000	6,200	51,200	58,900	43,900	69,700	38,200
10	16,900	10,000	7,800	6,600	6,200	6,000	6,400	38,500	56,100	45,000	77,500	36,100
11	16,000	10,000	7,800	6,600	6,200	6,000	6,600	40,800	55,800	47,200	88,100	34,500
12	16,000	10,000	7,800	6,600	6,200	6,000	6,800	41,900	59,200	50,400	96,300	32,700
13	15,000	10,000	7,800	6,600	6,200	6,000	7,000	46,600	61,900	54,800	97,700	31,000
14	15,000	9,800	7,800	6,600	6,200	6,000	7,200	53,100	58,900	64,700	90,600	29,500
15	15,000	9,800	7,800	6,600	6,200	6,000	7,400	59,700	52,300	81,200	81,400	28,400
16	14,000	9,800	7,600	6,400	6,200	6,000	7,600	60,700	48,600	88,200	73,700	27,300
17	14,000	9,600	7,600	6,400	6,200	6,000	7,800	59,000	44,700	83,100	67,600	26,800
18	14,000	9,600	7,600	6,400	6,200	6,000	8,200	56,500	41,200	73,900	63,500	26,500
19	14,000	9,400	7,600	6,400	6,200	6,000	8,600	56,200	39,700	70,400	59,000	26,200
20	14,000	9,400	7,600	6,400	6,200	6,000	9,000	57,800	38,300	68,000	58,100	25,800
21	13,000	9,400	7,400	6,200	6,200	6,000	9,400	58,900	39,000	66,300	61,800	25,300
22	13,000	9,200	7,400	6,200	6,200	6,000	9,800	58,600	43,900	64,800	59,900	24,700
23	13,000	9,200	7,400	6,200	6,200	6,000	10,000	56,200	49,900	59,900	56,100	24,300
24	13,000	9,200	7,400	6,200	6,200	6,000	11,000	54,400	55,400	54,500	53,600	23,900
25	12,000	9,000	7,200	6,200	6,200	6,000	12,000	52,500	58,000	51,300	52,400	23,300
26	12,000	9,000	7,200	6,200	6,200	6,000	13,000	51,900	60,100	50,300	52,000	22,800
27	12,000	8,800	7,200	6,200	6,200	6,000	14,000	53,100	59,500	52,900	51,400	22,900
28	12,000	8,800	7,200	6,200	6,200	6,000	15,000	54,500	58,000	56,900	50,100	22,800
29	11,000	8,600	7,200	6,200	------	6,000	16,000	55,500	55,900	59,800	48,300	22,100
30	11,000	8,600	7,000	6,200	------	6,000	18,000	53,300	58,600	60,900	46,200	22,100
31	11,000	------	7,000	6,200	------	6,000	------	53,800	------	57,000	44,600	------
TOTAL	462,300	291,200	237,800	201,800	173,600	186,000	266,600	1,477.7M	1,544.9M	1,764.6M	2,025.9M	946,000
MEAN	14,910	9,707	7,671	6,510	6,200	6,000	8,887	47,670	51,500	56,920	65,350	31,530
MAX	20,700	11,000	8,400	7,000	6,200	6,000	18,000	60,700	61,900	88,200	97,700	45,200
MIN	11,000	8,600	7,000	6,200	6,200	6,000	6,200	20,000	38,300	40,100	44,600	22,100
CFSM	.58	.38	.30	.25	.24	.23	.35	1.86	2.01	2.22	2.55	1.23
IN.	.67	.42	.35	.29	.25	.27	.39	2.15	2.24	2.56	2.94	1.37
AC-FT	917,000	577,600	471,700	400,300	344,300	368,900	528,800	2,931M	3,064M	3,500M	4,018M	1,876M

CAL YR 1970 TOTAL 7,195,800 MEAN 19,710 MAX 60,300 MIN 7,000 CFSM .77 IN 10.42 AC-FT 14,270,000
WTR YR 1971 TOTAL 9,578,400 MEAN 26,240 MAX 97,700 MIN 6,000 CFSM 1.02 IN 13.90 AC-FT 19,000,000

NOTE.--No gage-height record Oct. 11 to May 8.
M.--Expressed in thousands.

15515500 Tanana River at Nenana--(continued)

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.69							-	7.76	9.24	8.65	7.21
2	3.60							-	7.52	8.35	9.10	7.22
3	3.47							-	7.72	7.63	9.92	7.38
4	3.30							-	7.38	7.33	10.35	7.47
5	3.29							-	6.91	7.42	10.24	7.46
6	3.25							-	7.25	7.54	9.72	7.37
7	2.94							-	8.08	7.69	9.64	7.23
8	2.83							7.09	8.94	7.77	9.76	6.96
9	2.89							7.32	9.10	7.76	10.07	6.65
10	2.95							5.76	9.70	7.88	10.85	6.39
11	2.80							6.05	9.66	8.13	11.90	6.19
12	2.78							6.19	10.03	8.48	12.66	5.95
13	2.78							6.77	10.31	8.97	12.79	5.71
14	2.78							7.58	10.00	9.86	12.14	5.50
15	2.78							8.31	9.28	11.37	11.24	5.34
16	-							8.42	8.86	11.92	10.47	5.18
17	-							8.24	8.43	11.41	9.86	5.11
18	-							7.95	8.04	10.49	9.45	5.08
19	-							7.92	7.85	10.14	9.00	5.03
20	-							8.10	7.68	9.90	8.89	4.98
21	-							8.22	7.72	9.73	9.28	4.91
22	-							8.18	8.23	9.58	9.09	4.81
23	-							7.92	8.85	9.09	8.68	4.75
24	-							7.72	9.41	8.50	8.41	4.70
25	-							7.51	9.65	8.15	8.27	4.61
26	-							7.54	9.81	8.03	8.22	4.54
27	-							7.77	9.70	8.33	8.15	4.55
28	-							8.02	9.49	8.76	8.01	4.54
29	-				------			8.23	9.20	9.07	7.81	4.44
30	-				------			8.09	9.45	9.19	7.58	4.44
31	-	------			------		------	8.15	------	8.77	7.40	------
MEAN									8.73	8.92	9.60	5.72
MAX									10.31	11.92	12.79	7.47
MIN									6.91	7.33	7.40	4.44

15515800 Seattle Creek near Cantwell

LOCATION.--Lat 63°19'32", long 148°14'49", on left downstream wingwall of bridge at mile 110.9 on the Denali Highway, 22.4 miles southeast of Cantwell.

DRAINAGE AREA.--36.2 sq mi.

PERIOD OF RECORD.--June 1963 to September 1965, published as "near Windy" (peak flows only), October 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,250 ft (from topographic map). June 8, 1963 to Sept. 30, 1965, crest-stage gage 30 ft upstream at datum 5.38 ft lower.

AVERAGE DISCHARGE.--6 years, 51.4 cfs (16.96 inches per year, 32,750 acre-ft per year).

EXTREMES.--Current year: Maximum discharge recorded, 810 cfs June 6 (gage height, 5.47 ft); minimum daily, 10 cfs Mar. 3 to Apr. 22. Period of record: Maximum discharge, 3,100 cfs June 1964 (gage height, 13.43 ft, correction, site and datum then in use, from floodmarks) from rating extended above 670 cfs; maximum gage height, 11.37 ft May 11, 1969 (backwater from ice); minimum daily discharge, 5.5 cfs Feb. 16 to Apr. 15, 1970.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--Revised figures of discharge in cubic feet per second, for the water year 1970, superseding those published in WRD Alaska, 1970, are given herewith:

	Discharge			Discharge			Discharge			Discharge			Discharge	
Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.	Day	Aug.	Sept.		Aug.	Sept.
1	--	36	9	--	33	17	--	40	25	40	40	TOTAL	1,497	1,079
2	--	34	10	--	31	18	--	56	26	37	34	MEAN	48.3	36.0
3	--	32	11	--	29	19	--	45	27	35	32	MAX	80	56
4	--	34	12	--	30	20	--	43	28	33	30	MIN	33	29
5	--	36	13	--	32	21	47	42	29	33	29	AC-FT	2,970	2,140
6	--	33	14	--	35	22	45	41	30	37	30			
7	--	32	15	--	38	23	45	41	31	40	--			
8	--	30	16	--	38	24	43	43						

WTR YR 1970 TOTAL 13,124 MEAN 36.0 AC-FT 26,030

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	19	15	12	11	11	10	22	220	86	43	56
2	29	19	15	12	11	11	10	26	240	66	52	114
3	28	18	14	12	11	10	10	30	260	59	46	88
4	28	18	14	12	11	10	10	34	320	59	39	83
5	27	18	14	12	11	10	10	39	400	59	36	66
6	28	18	14	12	11	10	10	45	594	55	48	66
7	30	18	14	12	11	10	10	43	578	52	68	57
8	31	18	14	12	11	10	10	39	556	50	91	53
9	30	17	14	12	11	10	10	44	570	49	109	54
10	28	17	14	12	11	10	10	56	556	48	125	52
11	26	17	14	12	11	10	10	62	594	47	114	49
12	25	17	14	12	11	10	10	66	514	46	78	46
13	24	17	14	12	11	10	10	66	352	51	83	43
14	24	17	13	12	11	10	10	62	213	50	69	42
15	24	16	13	12	11	10	10	58	176	48	56	40
16	23	16	13	12	11	10	10	52	164	44	50	43
17	23	16	13	12	11	10	10	52	150	40	46	41
18	22	16	13	12	11	10	10	56	147	37	43	39
19	22	16	13	12	11	10	10	66	120	35	41	38
20	22	16	13	12	11	10	10	84	134	38	106	41
21	22	16	13	12	11	10	10	92	150	37	111	48
22	21	16	13	12	11	10	10	100	145	35	72	50
23	21	15	13	11	11	10	11	110	152	33	60	43
24	21	15	13	11	11	10	11	130	145	32	53	40
25	20	15	13	11	11	10	11	170	118	38	59	38
26	20	15	13	11	11	10	12	180	102	49	57	37
27	20	15	13	11	11	10	13	170	100	45	50	36
28	20	15	12	11	11	10	14	170	85	46	46	36
29	20	15	12	11	------	10	16	190	129	40	43	35
30	19	15	12	11	------	10	19	200	134	37	40	35
31	19	------	12	11	------	10	------	210	------	37	51	------
TOTAL	747	496	414	363	308	312	327	2,724	8,118	1,448	1,985	1,509
MEAN	24.1	16.5	13.4	11.7	11.0	10.1	10.9	87.9	271	46.7	64.0	50.3
MAX	31	19	15	12	11	11	19	210	594	86	125	114
MIN	19	15	12	11	11	10	10	22	85	32	36	35
CFSM	.67	.46	.37	.32	.30	.28	.30	2.43	7.49	1.29	1.77	1.39
IN.	.77	.51	.43	.37	.32	.32	.34	2.80	8.34	1.49	2.04	1.55
AC-FT	1,480	984	821	720	611	619	649	5,400	16,100	2,870	3,940	2,990

CAL YR 1970 TOTAL 14,057.0 MEAN 38.5 MAX 280 MIN 5.5 CFSM 1.06 IN 14.44 AC-FT 27,880
WTR YR 1971 TOTAL 18,751.0 MEAN 51.4 MAX 594 MIN 10 CFSM 1.42 IN 19.27 AC-FT 37,190

NOTE.--No gage-height record Oct. 3 to June 5.

15516000 Nenana River near Windy

LOCATION.--Lat 63°27'28", long 148°48'11", near left bank under bridge on Denali Highway, 0.8 mile upstream from Jack River, 1 mile southeast of Windy railroad station, and 2 miles downstream from Schist Creek.

DRAINAGE AREA.--710 sq mi, approximately.

PERIOD OF RECORD.--June 1950 to September 1956, October 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,100 ft (from topographic map). See WSP 1936 for history of changes prior to June 4, 1959. June 4, 1959 to June 19, 1964, water-stage recorder, 400 ft upstream at same datum. June 20, 1964 to Aug. 7, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--19 years, 1,215 cfs (880,300 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 11,000 cfs June 12; minimum daily, 150 cfs Apr. 1-25.
Period of record: Maximum discharge, 11,900 cfs June 15, 1962 (gage height, 9.84 ft), from rating curve extended above 6,000 cfs; maximum gage height, 10.20 ft May or June, 1964 from floodmarks (backwater from ice); minimum discharge not determined.

REMARKS.--Records fair except those for the periods of no gage-height record, which are poor. Some diurnal fluctuation at times each year caused by glacier melt.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	380	210	180	170	160	150	170	3,000	5,000	2,540	2,000
2	1,070	360	210	180	170	160	150	180	3,400	3,700	3,690	2,770
3	934	360	210	180	170	160	150	190	3,800	3,300	3,140	3,320
4	823	340	210	180	170	160	150	190	4,600	3,000	2,470	3,040
5	774	320	210	180	170	160	150	200	5,500	3,100	2,170	2,760
6	823	320	200	180	170	160	150	220	6,360	3,200	2,660	2,600
7	878	300	200	180	170	160	150	240	7,270	3,200	3,660	2,370
8	902	300	200	180	170	160	150	260	7,800	3,300	4,660	2,130
9	878	300	200	180	170	160	150	300	8,180	3,400	6,120	2,050
10	846	280	200	180	170	160	150	340	9,000	3,400	6,810	2,120
11	809	280	200	170	170	160	150	400	10,000	3,400	6,180	1,900
12	781	280	200	170	170	160	150	500	11,000	3,500	4,800	1,740
13	750	260	200	170	170	160	150	650	10,000	3,600	4,050	1,620
14	700	260	200	170	170	160	150	900	9,000	4,800	3,790	1,540
15	650	260	200	170	170	160	150	950	6,500	3,410	3,280	1,470
16	650	250	200	170	170	160	150	900	5,000	2,590	2,780	1,490
17	600	250	200	170	170	160	150	800	4,200	2,170	2,510	1,460
18	600	240	200	170	170	160	150	850	4,100	2,020	2,340	1,390
19	550	240	200	170	170	160	150	900	4,400	1,980	2,280	1,320
20	550	240	200	170	170	160	150	920	4,800	2,000	3,200	1,360
21	550	230	190	170	160	160	150	850	6,000	2,670	3,760	1,460
22	500	230	190	170	160	160	150	900	6,500	2,040	2,970	1,490
23	500	230	190	170	160	160	150	1,000	7,400	1,650	2,550	1,400
24	480	230	190	170	160	160	150	1,100	8,000	1,480	2,300	1,320
25	460	230	190	170	160	160	150	1,200	7,500	1,510	2,290	1,250
26	440	220	190	170	160	160	160	1,400	7,000	2,180	2,240	1,200
27	440	220	190	170	160	160	160	1,200	6,800	2,370	2,170	1,170
28	420	220	190	170	160	160	160	1,400	6,500	2,560	1,980	1,080
29	420	220	190	170	------	160	160	1,700	6,200	2,400	1,820	1,100
30	400	220	190	170	------	160	160	2,000	5,800	2,020	1,760	1,100
31	400	------	190	170	------	160	------	2,600	------	1,960	1,800	------
TOTAL	20,668	8,070	6,140	5,370	4,680	4,960	4,550	25,410	195,610	86,910	98,770	53,020
MEAN	667	269	198	173	167	160	152	820	6,520	2,804	3,186	1,767
MAX	1,090	380	210	180	170	160	160	2,600	11,000	5,000	6,810	3,320
MIN	400	220	190	170	160	160	150	170	3,000	1,480	1,760	1,080
CFSM	.94	.38	.28	.24	.24	.23	.21	1.15	9.18	3.95	4.49	2.49
IN.	1.08	.42	.32	.28	.25	.26	.24	1.33	10.25	4.55	5.17	2.78
AC-FT	40,990	16,010	12,180	10,650	9,280	9,840	9,020	50,400	388,000	172,400	195,900	105,200

CAL YR 1970 TOTAL 412,918 MEAN 1,131 MAX 5,260 MIN 170 CFSM 1.59 IN 21.63 AC-FT 819,000
WTR YR 1971 TOTAL 514,158 MEAN 1,409 MAX 11,000 MIN 150 CFSM 1.98 IN 26.94 AC-FT 1,020,000

NOTE.--No gage-height record Oct. 27 to June 5, June 10 to July 12.

15518000 Nenana River near Healy

LOCATION.--Lat 63°50'43", long 148°56'37", in NW¼ sec.28, T.12 S., R.7 E., on left bank 0.5 mile upstream from Healy Creek, 1.1 miles southeast of Healy, and 1.2 miles upstream from railroad bridge.

DRAINAGE AREA.--1,910 sq mi, approximately.

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,270.22 ft above mean sea level. Prior to Aug. 11, 1964, water-stage recorder 200 ft downstream at same datum. Aug. 12, 1964 to Feb. 21, 1967, water-stage recorder, and Feb. 22, 1967 to Apr. 2, 1970, nonrecording gage 300 ft upstream at same datum.

AVERAGE DISCHARGE.--21 years, 3,652 cfs (25.92 inches per year, 2,646,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,500 cfs June 12 (gage height, 10.05 ft); minimum daily, 530 cfs Apr. 1-27.
Period of record: Maximum discharge, 46,800 cfs July 25, 1967 (gage height, 13.40 ft, from floodmarks); minimum not determined.
REVISIONS.--The maximum discharge for the water year 1970 has been revised to 17,200 cfs July 22, 1970 (gage height, 8.80 ft), superseding figure published in WRD Alaska, 1970.

REMARKS.--Records good except for the period Oct. 6 to June 9, which are poor. Some diurnal fluctuation at times each year caused by glacier melt at the source.

REVISIONS.--Revised figures of discharge, in cubic feet per second, for the water year 1970, superseding those published in WRD Alaska, 1970, are given herewith:

	Discharge				Discharge				Discharge				Discharge		
Day	June	July	Aug.	Day	June	July	Aug.	Day	June	July	Aug.	Day	June	July	Aug.
1	--	12,600	9,900	9	--	10,400	--	17	--	8,020	--	25	11,200	11,000	--
2	--	11,800	12,000	10	--	9,140	--	18	--	9,140	--	26	13,100	10,900	--
3	--	14,000	11,200	11	--	8,260	--	19	--	14,200	--	27	14,300	10,900	--
4	--	14,600	9,260	12	--	7,750	--	20	--	14,600	--	28	14,300	11,100	--
5	--	14,600	8,410	13	--	7,300	--	21	--	15,400	--	29	14,100	10,300	--
6	--	11,700	10,200	14	--	7,240	--	22	8,500	16,800	--	30	15,000	10,300	--
7	--	10,400	9,460	15	--	7,150	--	23	10,600	14,400	--	31	--	9,540	--
8	--	10,800	9,660	16	--	8,080	--	24	11,600	12,100	--				
TOTAL													236,450	344,520	225,790
MAX													15,000	16,800	12,000
MIN													4,770	7,150	5,130
MEAN													7,882	11,114	7,284
RUNOFF IN ACRE-FT													469,000	683,300	447,800

WATER YEAR 1970 TOTAL 1,182,920 MEAN 3,241 MAX 16,800 MIN 430 AC-FT 2,346,000

15518000 Nenana River near Healy--(continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,240	1,000	590	540	540	540	530	620	7,400	13,800	9,340	6,310
2	3,150	1,000	580	540	540	540	530	680	8,000	9,860	12,400	7,330
3	2,780	980	570	540	540	540	530	740	8,400	8,800	11,500	8,260
4	2,540	960	570	540	540	540	530	880	9,400	9,070	10,200	7,660
5	2,370	920	560	540	540	540	530	1,000	11,000	9,700	9,100	7,300
6	2,400	900	560	540	540	540	530	1,200	12,000	10,300	9,620	7,000
7	2,500	880	550	540	540	540	530	1,500	13,000	10,200	12,900	6,310
8	2,600	860	540	540	540	540	530	1,800	14,000	10,700	14,700	5,650
9	2,500	840	540	540	540	540	530	2,200	16,000	10,500	17,700	5,500
10	2,400	820	540	540	540	540	530	2,800	18,000	10,900	21,000	5,480
11	2,300	800	540	540	540	540	530	3,400	19,700	11,700	20,400	5,160
12	2,100	780	540	540	540	540	530	3,980	22,600	12,400	16,200	4,860
13	2,000	760	540	540	540	540	530	3,700	19,900	15,800	13,400	4,600
14	1,800	740	540	540	540	540	530	4,120	15,700	19,400	11,600	4,360
15	1,800	730	540	540	540	540	530	4,400	12,000	18,000	9,780	4,220
16	1,700	720	540	540	540	540	530	4,000	10,900	13,300	8,680	4,180
17	1,700	700	540	540	540	540	530	3,700	10,600	11,000	8,050	4,160
18	1,600	690	540	540	540	540	530	4,080	10,700	10,300	7,810	4,000
19	1,600	680	540	540	540	540	530	4,400	10,500	10,900	7,600	3,810
20	1,500	670	540	540	540	540	530	4,600	11,200	11,000	9,420	3,900
21	1,500	660	540	540	540	540	530	3,660	13,000	11,200	10,800	4,180
22	1,400	650	540	540	540	540	530	4,000	17,400	9,010	8,920	4,140
23	1,400	640	540	540	540	540	530	4,300	16,600	7,660	8,110	3,920
24	1,300	640	540	540	540	540	530	4,740	20,700	6,790	7,660	3,760
25	1,300	630	540	540	540	540	530	6,000	19,400	7,120	7,390	3,630
26	1,200	620	540	540	540	540	530	7,100	18,000	8,620	7,300	3,520
27	1,200	610	540	540	540	540	530	6,600	17,800	9,620	7,060	3,450
28	1,100	610	540	540	540	540	540	5,800	17,300	10,100	6,460	3,220
29	1,100	600	540	540	------	540	560	6,000	16,400	9,010	5,950	3,030
30	1,100	600	540	540	------	540	580	6,400	17,300	7,870	5,800	3,040
31	1,100	------	540	540	------	540	------	6,800	------	8,050	5,710	------
TOTAL	58,280	22,690	16,940	16,740	15,120	16,740	15,990	115,200	434,900	332,680	322,560	145,940
MEAN	1,880	756	546	540	540	540	533	3,716	14,500	10,730	10,410	4,865
MAX	3,240	1,000	590	540	540	540	580	7,100	22,600	19,400	21,000	8,260
MIN	1,100	600	540	540	540	540	530	620	7,400	6,790	5,710	3,030
CFSM	.98	.40	.29	.28	.28	.28	.28	1.95	7.59	5.62	5.45	2.55
IN.	1.14	.44	.33	.33	.29	.33	.31	2.24	8.47	6.48	6.28	2.84
AC-FT	115,600	45,010	33,600	33,200	29,990	33,200	31,720	228,500	862,600	659,900	639,800	289,500

CAL YR 1970 TOTAL 1,212,570 MEAN 3,322 MAX 16,800 MIN 430 CFSM 1.74 IN 23.62 AC-FT 2,405,000
WTR YR 1971 TOTAL 1,513,780 MEAN 4,147 MAX 22,600 MIN 530 CFSM 2.17 IN 29.48 AC-FT 3,003,000

NOTE.--No gage-height record Oct. 12 to May 11.

15518350 Teklanika River near Lignite

LOCATION.--Lat 63°55'14", long 149°29'51", in NW¼ sec.34, T.11 S., R.10 W., on left bank, 0.4 mile downstream from Savage River, and 14.5 miles west of Lignite.

DRAINAGE AREA.--490 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,550 ft (from topographic map). Prior to Oct. 10, 1966, at site 0.2 mile upstream at different datum.

AVERAGE DISCHARGE.--7 years, 758 cfs (21.01 inches per year, 549,200 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 6,100 cfs June 6 (gage height, 7.85 ft), from rating curve extended above 2,500 cfs; minimum daily, 180 cfs Oct. 28 to Apr. 22.
Period of record: Maximum discharge, 33,100 cfs July 25, 1967 (gage height, 12.51 ft, from floodmarks), from rating curve extended above 2,500 cfs; minimum daily, 130 cfs Mar. 1 to Apr. 17, 1968.

REMARKS.--Records poor. Diurnal fluctuation occurs at times during the year due to glacial melt at the source. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	680	180	180	180	180	180	180	230	1,460	2,290	2,040	1,320
2	630	180	180	180	180	180	180	240	1,320	1,730	2,230	1,540
3	457	180	180	180	180	180	180	250	1,180	1,620	1,970	1,350
4	390	180	180	180	180	180	180	260	1,520	1,930	1,970	1,200
5	340	180	180	180	180	180	180	270	3,030	2,120	1,980	1,100
6	310	180	180	180	180	180	180	290	3,840	2,140	2,210	1,100
7	280	180	180	180	180	180	180	310	3,840	2,170	2,700	990
8	270	180	180	180	180	180	180	330	3,680	2,580	2,640	928
9	250	180	180	180	180	180	180	360	3,510	2,490	3,150	892
10	240	180	180	180	180	180	180	390	3,100	2,530	3,840	916
11	230	180	180	180	180	180	180	430	3,440	2,680	2,810	880
12	220	180	180	180	180	180	180	480	4,290	3,150	2,390	809
13	220	180	180	180	180	180	180	550	4,230	3,840	2,080	720
14	210	180	180	180	180	180	180	620	3,150	4,060	1,780	710
15	210	180	180	180	180	180	180	700	2,550	2,790	1,520	670
16	210	180	180	180	180	180	180	732	1,950	2,020	1,360	710
17	210	180	180	180	180	180	180	765	1,640	1,760	1,360	670
18	200	180	180	180	180	180	180	856	1,670	2,020	1,410	640
19	200	180	180	180	180	180	180	1,180	1,830	2,210	1,440	620
20	200	180	180	180	180	180	180	1,360	1,890	2,290	2,770	610
21	190	180	180	180	180	180	180	1,320	2,350	2,160	2,300	601
22	190	180	180	180	180	180	180	1,260	3,170	1,520	1,500	583
23	190	180	180	180	180	180	190	1,170	2,730	1,240	1,200	556
24	190	180	180	180	180	180	190	1,350	3,530	1,170	1,150	547
25	190	180	180	180	180	180	190	1,780	3,360	1,390	1,100	520
26	190	180	180	180	180	180	200	1,910	3,240	1,870	1,100	556
27	190	180	180	180	180	180	200	1,410	3,100	1,780	1,070	538
28	180	180	180	180	180	180	210	1,410	2,900	1,760	1,000	493
29	180	180	180	180	------	180	210	1,470	3,390	1,380	990	556
30	180	180	180	180	------	180	220	1,410	3,320	1,200	1,000	583
31	180	------	180	180	------	180	------	1,260	------	1,360	1,110	------
TOTAL	8,007	5,400	5,580	5,580	5,040	5,580	5,570	26,353	84,210	65,250	57,170	23,908
MEAN	258	180	180	180	180	180	186	850	2,807	2,105	1,844	797
MAX	680	180	180	180	180	180	220	1,910	4,290	4,060	3,840	1,540
MIN	180	180	180	180	180	180	180	230	1,180	1,170	990	493
CFSM	.53	.37	.37	.37	.37	.37	.38	1.73	5.73	4.30	3.76	1.63
IN.	.61	.41	.42	.42	.38	.42	.42	2.00	6.39	4.95	4.34	1.82
AC-FT	15,980	10,710	11,070	11,070	10,000	11,070	11,050	52,270	167,000	129,400	113,400	47,420

CAL YR 1970 TOTAL 228,084 MEAN 625 MAX 10,100 MIN 170 CFSM 1.28 IN 17.32 AC-FT 452,400
WTR YR 1971 TOTAL 297,648 MEAN 815 MAX 4,290 MIN 180 CFSM 1.66 IN 22.60 AC-FT 590,400

PEAK DISCHARGE (BASE, 3,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1965				1969			
06-06	1630	8.42	4,540	06-17	0300	7.00	3,320
1966				1970			
06-07	2330	8.54	5,420	06-30	0730	8.25	6,260
06-18	1300	7.96	4,160	07-19	1700	10.50	16,800
1967				09-14	0800	8.70	9,200
07-25	--	12.51	33,100	1971			
08-13	[illegible]	10.35	17,500	06-06	2200	7.85	6,100
1968				06-29	2230	7.45	4,850
09-20	2300	7.33	3,950	07-14	0400	7.39	4,670
				08-10	1000	7.15	3,980

NOTE.--No gage-height record Oct. 4 to Apr. 30.

15535000 Caribou Creek near Chatanika

LOCATION.--Lat 65°04'00", long 147°33'05", on left bank 2.0 miles upstream from Poker Creek, 3.4 miles upstream from Chatanika River, 3.5 miles northwest of Chatanika, and 21.6 miles north of Fairbanks.

DRAINAGE AREA.--9.0 sq mi, approximately.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 870 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 53.6 cfs Aug. 9 (gage height, 2.51 ft); maximum gage height, 4.51 ft May 4 (backwater from ice); minimum daily discharge, 1.6 cfs Dec. 27 to Apr. 18.
Period of record: Maximum discharge, 89 cfs June 30, 1970 (gage height, 3.36 ft); maximum gage height, 4.51 ft May 4, 1971 (backwater from ice); minimum daily discharge, 1.2 cfs Jan. 1 to Apr. 15, 1970.

REMARKS --Records fair. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	3.8	2.5	1.6	1.6	1.6	1.6	3.0	29	10	14	13
2	4.8	3.8	2.5	1.6	1.6	1.6	1.6	3.5	25	11	14	12
3	4.8	3.7	2.4	1.6	1.6	1.6	1.6	4.0	22	10	14	12
4	4.8	3.7	2.4	1.6	1.6	1.6	1.6	4.5	20	10	16	16
5	4.7	3.7	2.4	1.6	1.6	1.6	1.6	5.0	19	10	14	15
6	4.7	3.7	2.3	1.6	1.6	1.6	1.6	6.0	18	9.6	14	13
7	4.7	3.6	2.3	1.6	1.6	1.6	1.6	7.0	17	9.6	18	12
8	4.6	3.6	2.2	1.6	1.6	1.6	1.6	8.0	16	9.9	26	11
9	4.6	3.6	2.2	1.6	1.6	1.6	1.6	9.0	14	9.6	44	11
10	4.6	3.6	2.2	1.6	1.6	1.6	1.6	11	13	9.6	37	10
11	4.6	3.5	2.1	1.6	1.6	1.6	1.6	13	13	11	29	9.9
12	4.5	3.4	2.1	1.6	1.6	1.6	1.6	15	12	22	25	9.6
13	4.5	3.4	2.0	1.6	1.6	1.6	1.6	17	12	24	23	9.4
14	4.5	3.3	2.0	1.6	1.6	1.6	1.6	20	12	25	22	9.2
15	4.4	3.2	2.0	1.6	1.6	1.6	1.6	23	11	21	22	8.9
16	4.4	3.2	1.9	1.6	1.6	1.6	1.6	27	11	17	21	8.9
17	4.3	3.2	1.9	1.6	1.6	1.6	1.6	30	11	16	20	9.6
18	4.3	3.1	1.9	1.6	1.6	1.6	1.6	39	11	15	20	9.6
19	4.2	3.1	1.8	1.6	1.6	1.6	1.7	44	13	15	19	9.6
20	4.2	3.0	1.8	1.6	1.6	1.6	1.7	43	15	13	20	9.2
21	4.2	3.0	1.8	1.6	1.6	1.6	1.7	37	14	14	20	8.9
22	4.2	2.9	1.8	1.6	1.6	1.6	1.8	35	17	13	19	8.4
23	4.1	2.9	1.8	1.6	1.6	1.6	1.8	34	13	13	19	8.4
24	4.1	2.8	1.7	1.6	1.6	1.6	1.8	36	12	13	17	8.9
25	4.0	2.8	1.7	1.6	1.6	1.6	1.8	42	11	13	15	8.9
26	4.0	2.8	1.7	1.6	1.6	1.6	1.9	46	11	13	15	8.9
27	4.0	2.7	1.6	1.6	1.6	1.6	2.0	46	11	13	14	8.7
28	3.9	2.6	1.6	1.6	1.6	1.6	2.1	41	11	15	14	8.4
29	3.9	2.6	1.6	1.6	------	1.6	2.3	41	11	14	14	8.4
30	3.8	2.6	1.6	1.6	------	1.6	2.5	34	10	13	14	11
31	3.8	------	1.6	1.6	------	1.6	------	30	------	14	14	------
TOTAL	135.1	96.9	61.4	49.6	44.8	49.6	51.9	754.0	435	426.3	607	307.8
MEAN	4.36	3.23	1.98	1.60	1.60	1.60	1.73	24.3	14.5	13.8	19.6	10.3
MAX	4.9	3.8	2.5	1.6	1.6	1.6	2.5	46	29	25	44	16
MIN	3.8	2.6	1.6	1.6	1.6	1.6	1.6	3.0	10	9.6	14	8.4
CFSM	.48	.36	.22	.18	.18	.18	.19	2.70	1.61	1.53	2.18	1.14
IN.	.56	.40	.25	.21	.19	.21	.21	3.12	1.80	1.76	2.51	1.27
AC-FT	268	192	122	98	89	98	103	1,500	863	846	1,200	611

CAL YR 1970	TOTAL 1,619.4	MEAN 4.44	MAX 38	MIN 1.2	CFSM .49	IN 6.69	AC-FT 3,210
WTR YR 1971	TOTAL 3,019.4	MEAN 8.27	MAX 46	MIN 1.6	CFSM .92	IN 12.48	AC-FT 5,990

NOTE.--No gage-height record Oct. 1 to May 2.

15564600 Melozitna River near Ruby

LOCATION.--Lat 64°47'34", long 155°33'39", on left bank 2.9 miles downstream from Grayling Creek, 4.2 miles northwest of Ruby, and 6.5 miles upstream from mouth.

DRAINAGE AREA.--2,693 sq mi.

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 190 ft (from topographic map).

AVERAGE DISCHARGE.--10 years, 2,023 cfs (1,466,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 23,700 cfs about May 20 (gage height, 8.65 ft from floodmarks); maximum gage height, 14.3 ft probably occured during period May 15-20 (from floodmarks, ice jam); minimum daily discharge, 20 cfs Mar. 8 to Apr. 12. Period of record: Maximum discharge, 28,200 cfs Sept. 3, 1962 (gage height, 9.40 ft); maximum gage height, 14.3 ft probably occurred during period May 15-20, 1971 (from floodmarks, ice jam); no flow at times.

REMARKS.--Records poor. Records of periodic chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	500	180	75	32	22	20	100	17,000	1,900	10,000	2,200
2	1,400	480	170	75	32	22	20	120	15,000	1,800	7,000	2,000
3	1,400	460	170	70	30	22	20	140	12,000	1,700	4,400	1,900
4	1,300	440	160	70	30	22	20	170	10,000	1,700	4,600	1,800
5	1,300	440	160	70	30	22	20	200	9,000	1,700	7,000	1,900
6	1,200	420	160	65	30	22	20	240	9,000	1,600	6,000	2,000
7	1,200	400	150	65	28	22	20	300	11,000	1,600	4,600	2,000
8	1,100	380	150	60	28	20	20	380	13,000	1,600	3,400	1,900
9	1,100	380	140	60	28	20	20	460	15,000	1,600	3,200	1,900
10	1,000	360	140	60	28	20	20	550	13,000	1,600	3,000	1,800
11	1,000	340	140	55	28	20	20	750	10,000	1,700	2,800	1,800
12	950	340	130	55	26	20	20	1,000	8,000	2,000	3,200	1,700
13	900	320	130	55	26	20	22	1,300	6,000	3,000	4,000	1,600
14	900	320	120	50	26	20	22	1,700	5,000	5,000	5,000	1,600
15	850	300	120	50	26	20	24	2,500	4,600	7,000	6,000	1,500
16	850	300	120	48	26	20	24	3,500	4,000	8,000	7,000	1,500
17	800	280	110	48	26	20	24	5,000	4,000	9,000	7,500	1,500
18	800	280	110	46	24	20	26	7,000	4,400	8,500	6,500	1,500
19	750	260	110	44	24	20	26	10,000	5,000	7,000	5,000	1,500
20	700	260	100	44	24	20	28	22,000	6,000	5,000	4,000	1,600
21	700	240	100	42	24	20	30	22,000	5,500	4,000	3,400	1,700
22	650	240	100	40	24	20	32	20,000	4,600	3,600	3,400	1,800
23	650	220	95	40	24	20	34	17,000	3,800	3,600	4,000	1,800
24	600	220	95	38	24	20	36	15,000	3,600	4,000	5,000	1,900
25	600	220	90	36	22	20	40	13,000	4,000	7,500	6,000	1,800
26	600	200	90	36	22	20	46	12,000	4,000	7,000	5,000	1,800
27	550	200	85	36	22	20	55	12,000	3,600	5,000	4,000	1,800
28	550	200	85	34	22	20	60	12,000	3,000	4,000	3,200	1,900
29	550	190	80	34	------	20	70	15,000	2,400	3,600	2,800	2,000
30	500	180	80	34	------	20	85	19,000	2,000	4,000	2,600	1,900
31	500	------	80	32	------	20	------	19,000	------	5,000	2,400	------
TOTAL	27,450	9,370	3,750	1,567	736	634	924	233,410	217,500	124,300	146,000	53,600
MEAN	885	312	121	50.5	26.3	20.5	30.8	7,529	7,250	4,010	4,710	1,787
MAX	1,500	500	180	75	32	22	85	22,000	17,000	9,000	10,000	2,200
MIN	500	180	80	32	22	20	20	100	2,000	1,600	2,400	1,500
AC-FT	54,450	18,590	7,440	3,110	1,460	1,260	1,830	463,000	431,400	246,500	289,600	106,300

CAL YR 1970 TOTAL 508,245.00 MEAN 1,392 MAX 8,810 MIN 0 AC-FT 1,008,000
WTR YR 1971 TOTAL 819,241.00 MEAN 2,244 MAX 22,000 MIN 20 AC-FT 1,625,000

NOTE.--No gage-height record except for occasional days.

15564800 Yukon River at Ruby
(International Hydrological Decade River Station)

LOCATION.--Lat 64°44'28", long 155°29'22", on left bank at Ruby, 300 ft downstream from Ruby Creek, 1.5 miles downstream from Melozitna River, and 2.5 miles upstream from Ruby Slough.

DRAINAGE AREA.--259,000 sq mi, approximately.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 150 ft (from topographic map).

AVERAGE DISCHARGE.--15 years, 169,900 cfs (123,100,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 800,000 cfs May 21, 22; maximum gage height, 38.5 ft May 20, from floodmarks (ice jam); minimum daily discharge, 26,000 cfs Mar. 13 to Apr. 14.
Period of record: Maximum discharge observed, 970,000 cfs June 20, 1964; maximum gage height, 38.5 ft May 20, 1971, from floodmarks (ice jam); minimum discharge not determined.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184,000	85,000	42,000	32,000	32,000	28,000	26,000	38,000	724,000	390,000	302,000	258,000
2	176,000	85,000	40,000	32,000	32,000	28,000	26,000	40,000	724,000	390,000	298,000	252,000
3	170,000	80,000	40,000	32,000	32,000	28,000	26,000	40,000	720,000	378,000	295,000	248,000
4	170,000	80,000	40,000	32,000	30,000	28,000	26,000	40,000	708,000	363,000	292,000	242,000
5	160,000	75,000	38,000	32,000	30,000	28,000	26,000	42,000	688,000	348,000	295,000	240,000
6	160,000	75,000	38,000	32,000	30,000	28,000	26,000	44,000	668,000	330,000	298,000	240,000
7	160,000	70,000	36,000	32,000	30,000	28,000	26,000	46,000	644,000	318,000	298,000	240,000
8	150,000	70,000	36,000	32,000	30,000	28,000	26,000	50,000	616,000	308,000	295,000	240,000
9	150,000	65,000	36,000	32,000	30,000	28,000	26,000	55,000	588,000	300,000	292,000	238,000
10	150,000	65,000	36,000	32,000	30,000	28,000	26,000	60,000	564,000	295,000	298,000	238,000
11	150,000	60,000	34,000	32,000	30,000	28,000	26,000	70,000	556,000	288,000	308,000	235,000
12	150,000	60,000	34,000	32,000	30,000	28,000	26,000	90,000	556,000	285,000	322,000	235,000
13	150,000	60,000	34,000	32,000	30,000	26,000	26,000	120,000	548,000	282,000	332,000	235,000
14	150,000	55,000	34,000	32,000	30,000	26,000	26,000	160,000	532,000	285,000	340,000	238,000
15	140,000	55,000	34,000	32,000	30,000	26,000	28,000	220,000	516,000	288,000	340,000	238,000
16	140,000	55,000	34,000	32,000	30,000	26,000	28,000	350,000	506,000	288,000	338,000	232,000
17	140,000	55,000	34,000	32,000	30,000	26,000	28,000	500,000	485,000	298,000	338,000	228,000
18	140,000	50,000	34,000	32,000	30,000	26,000	30,000	600,000	464,000	310,000	338,000	222,000
19	130,000	50,000	34,000	32,000	30,000	26,000	30,000	700,000	429,000	318,000	345,000	220,000
20	130,000	50,000	34,000	32,000	30,000	26,000	30,000	750,000	405,000	318,000	350,000	208,000
21	130,000	50,000	34,000	32,000	28,000	26,000	30,000	800,000	402,000	312,000	342,000	200,000
22	120,000	48,000	34,000	32,000	28,000	26,000	32,000	800,000	402,000	308,000	332,000	194,000
23	120,000	48,000	34,000	32,000	28,000	26,000	32,000	750,000	405,000	310,000	322,000	190,000
24	110,000	46,000	34,000	32,000	28,000	26,000	32,000	750,000	408,000	312,000	315,000	186,000
25	110,000	46,000	34,000	32,000	28,000	26,000	34,000	750,000	408,000	312,000	305,000	184,000
26	110,000	44,000	34,000	32,000	28,000	26,000	34,000	700,000	411,000	310,000	290,000	180,000
27	100,000	44,000	34,000	32,000	28,000	26,000	36,000	700,000	417,000	308,000	278,000	178,000
28	100,000	44,000	32,000	32,000	28,000	26,000	36,000	700,000	420,000	310,000	270,000	174,000
29	95,000	42,000	32,000	32,000	------	26,000	38,000	700,000	417,000	312,000	268,000	174,000
30	90,000	42,000	32,000	32,000	------	26,000	38,000	700,000	405,000	310,000	265,000	176,000
31	90,000	------	32,000	32,000	------	26,000	------	716,000	------	305,000	262,000	------
TOTAL	4,225.0M	1,754.0M	1,088.0M	992,000	830,000	830,000	880,000	12,081M	15,736M	9,789.0M	9,563.0M	6,563.0M
MEAN	136,300	58,470	35,100	32,000	29,640	26,770	29,330	389,700	524,500	315,800	308,500	218,800
MAX	184,000	85,000	42,000	32,000	32,000	28,000	38,000	800,000	724,000	390,000	350,000	258,000
MIN	90,000	42,000	32,000	32,000	28,000	26,000	26,000	38,000	402,000	282,000	262,000	174,000
AC-FT	8,380M	3,479M	2,158M	1,968M	1,646M	1,646M	1,745M	23,960M	31,210M	19,420M	18,970M	13,020M

CAL YR 1970 TOTAL 50,854,000 MEAN 139,300 MAX 369,000 MIN 26,000 AC-FT 100,900,000
WTR YR 1971 TOTAL 64,331,000 MEAN 176,200 MAX 800,000 MIN 26,000 AC-FT 127,600,000

NOTE.--No gage-height record Oct. 3 to May 21.

M.--Expressed in thousands.

15564875 Middle Fork Koyukuk River near Wiseman

LOCATION.--Lat 67°26'35", long 150°03'40", on left bank, 0.8 mile upstream from Minnie Creek, 2.8 miles downstream from Hammond River, and 1.6 miles north of Wiseman.

DRAINAGE AREA.--1,426 sq mi.

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,100 ft (from topographic map).

EXTREMES.--August to September 1970: Maximum discharge, 3,860 cfs Aug. 22 (gage height, 9.69 ft); minimum daily, 190 cfs Sept. 30.
Current year: Maximum discharge, 6,860 cfs June 24 (gage height, 10.34 ft); minimum daily, 3 cfs Feb. 2 to Mar. 31.

REMARKS.--Records poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											1,000	1,930
2											1,100	1,630
3											1,200	1,400
4											1,300	1,260
5											1,470	1,110
6											2,600	936
7											2,960	864
8											2,190	680
9											2,190	680
10											2,000	630
11											1,680	612
12											1,400	630
13											1,260	816
14											1,110	912
15											1,040	680
16											1,010	630
17											1,140	588
18											1,280	548
19											1,920	520
20											2,330	500
21											2,420	450
22											3,240	400
23											3,070	370
24											2,820	330
25											3,640	300
26											2,820	270
27											2,440	250
28											2,310	230
29					------						2,170	210
30					------						2,110	190
31		------			------		------		------		2,260	------
TOTAL											61,480	20,556
MEAN											1,983	685
MAX											3,640	1,930
MIN											1,000	190
CFSM											1.39	.48
IN.											1.60	.54
AC-FT											121,900	40,770

15564875 Middle Fork Koyukuk River near Wiseman--(continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	90	40	9.0	4.0	3.0	4.0	8.0	500	1,200	1,820	460
2	170	90	40	8.0	3.0	3.0	4.0	8.0	600	1,150	2,140	520
3	165	90	35	7.0	3.0	3.0	4.0	9.0	760	960	2,450	660
4	160	85	35	7.0	3.0	3.0	4.0	9.0	960	860	1,880	840
5	160	85	35	7.0	3.0	3.0	4.0	10	1,200	920	1,600	820
6	155	85	30	6.0	3.0	3.0	4.0	10	1,500	1,000	1,300	720
7	150	80	30	6.0	3.0	3.0	4.0	10	1,800	1,100	1,200	620
8	150	80	30	6.0	3.0	3.0	4.0	10	2,250	1,150	1,000	540
9	150	80	30	6.0	3.0	3.0	4.0	10	2,900	1,060	900	465
10	140	75	25	6.0	3.0	3.0	4.0	10	3,850	960	820	430
11	140	75	25	5.0	3.0	3.0	5.0	10	4,550	940	740	390
12	135	75	25	5.0	3.0	3.0	5.0	10	3,390	1,880	660	360
13	135	70	25	5.0	3.0	3.0	5.0	15	1,930	1,250	600	330
14	130	70	20	5.0	3.0	3.0	5.0	15	1,350	1,100	540	310
15	130	70	20	5.0	3.0	3.0	5.0	15	1,320	940	500	290
16	130	65	20	5.0	3.0	3.0	5.0	15	1,530	860	470	270
17	125	65	20	5.0	3.0	3.0	5.0	20	3,130	850	430	250
18	125	60	20	5.0	3.0	3.0	5.0	20	4,460	1,000	420	230
19	120	60	15	4.0	3.0	3.0	5.0	25	4,460	1,300	460	220
20	120	60	15	4.0	3.0	3.0	6.0	30	4,640	1,500	660	210
21	115	55	15	4.0	3.0	3.0	6.0	40	5,000	1,800	860	190
22	115	55	15	4.0	3.0	3.0	6.0	50	5,280	2,170	800	180
23	110	55	15	4.0	3.0	3.0	6.0	65	4,820	2,520	740	170
24	110	50	15	4.0	3.0	3.0	6.0	75	4,680	2,000	680	165
25	110	50	15	4.0	3.0	3.0	6.0	100	2,980	1,650	620	160
26	105	50	10	4.0	3.0	3.0	7.0	125	2,350	1,400	570	150
27	105	45	10	4.0	3.0	3.0	7.0	150	2,080	1,250	540	145
28	100	45	10	4.0	3.0	3.0	7.0	200	1,850	3,100	500	140
29	100	45	10	4.0	------	3.0	7.0	250	1,600	3,000	470	135
30	95	40	10	4.0	------	3.0	7.0	320	1,350	2,160	450	130
31	95	------	10	4.0	------	3.0	------	400	------	1,700	425	------
TOTAL	4,020	2,000	670	160.0	85.0	93.0	156.0	2,044.0	79,070	44,730	27,245	10,500
MEAN	130	66.7	21.6	5.16	3.04	3.00	5.20	65.9	2,636	1,443	879	350
MAX	170	90	40	9.0	4.0	3.0	7.0	400	5,280	3,100	2,450	840
MIN	95	40	10	4.0	3.0	3.0	4.0	8.0	500	850	420	130
CFSM	.09	.05	.02	.004	.002	.002	.004	.05	1.85	1.01	.62	.25
IN.	.10	.05	.02	.004	.002	.002	.004	.05	2.06	1.17	.71	.27
AC-FT	7,970	3,970	1,330	317	169	184	309	4,050	156,800	88,720	54,040	20,830

WTR YR 1971 TOTAL 170,773.0 MEAN 468 MAX 5,280 MIN 3.0 CFSM .33 IN 4.45 AC-FT 338,700

NOTE.--No gage-height record Oct. 1 to June 11, June 28 to July 28 and Aug. 5 to Sept. 30.

15564877 Wiseman Creek at Wiseman

LOCATION.--lat 67°24'40", long 150°06'00", on left abutment of footbridge,at mouth, 0.2 mile from morth end of landing strip at Wiseman.

DRAINAGE AREA.--49.2 sq mi.

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,100 ft.

EXTREMES.--August to September 1970: Maximum discharge, 109 cfs Aug. 6 (gage height, 4.28 ft); no flow Sept. 28, 29.
Water year 1971: Maximum discharge, 590 cfs June 6 (gage height, 4.82 ft); no flow Oct. 1 to May 8.

REMARKS.--Records fair. Records of chemical analyses for the period August to September 1970 are published in Part 2 of WRD Alaska 1970. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											32	50
2											27	41
3											23	35
4											30	31
5											60	29
6											93	26
7											62	26
8											41	26
9											38	25
10											35	23
11											30	25
12											27	28
13											26	30
14											23	25
15											23	20
16											23	15
17											29	10
18											31	8.0
19											56	6.0
20											57	5.0
21											56	4.0
22											57	3.0
23											51	3.0
24											56	2.0
25											72	2.0
26											58	2.0
27											54	1.0
28											51	1.0
29					------						42	0
30					------						51	0
31		------			------		------		------		54	------
TOTAL											1,368	502.0
MEAN											44.1	16.7
MAX											93	50
MIN											23	0
CFSM											.90	.34
IN.											1.03	.38
AC-FT											2,710	996

15564877 Wiseman Creek at Wiseman--(Continued).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	201	14	28	12
2								0	255	12	30	12
3								0	120	11	28	14
4								0	125	11	24	14
5								0	259	9.8	20	15
6								0	340	9.5	17	16
7								0	320	10	17	16
8								0	330	11	16	16
9								1.0	262	10	15	15
10								5.0	225	9.5	14	14
11								10	125	50	13	14
12								20	79	38	13	13
13								40	44	27	12	12
14								70	19	24	12	11
15								100	55	25	12	10
16								170	87	20	11	11
17								250	120	17	11	12
18								300	106	14	10	12
19								280	103	12	10	12
20								260	100	12	11	13
21								240	112	15	13	16
22								225	140	21	14	17
23								207	112	19	14	15
24								195	90	17	14	16
25								213	62	15	14	15
26								278	48	16	14	15
27								262	50	18	14	13
28								201	32	46	14	12
29					------			255	23	87	13	11
30					------			292	18	51	13	10
31		------			------		------	207	------	35	12	------
TOTAL	0	0	0	0	0	0	0	4,081.0	3,962	686.8	473	404
MEAN	0	0	0	0	0	0	0	132	132	22.2	15.3	13.5
MAX	0	0	0	0	0	0	0	300	340	87	30	17
MIN	0	0	0	0	0	0	0	0	18	9.5	10	10
CFSM	0	0	0	0	0	0	0	2.68	2.68	.45	.31	.27
IN.	0	0	0	0	0	0	0	3.09	3.00	.52	.36	.31
AC-FT	0	0	0	0	0	0	0	8,090	7,860	1,360	938	801

WTR YR 1971 TOTAL 9,606.8 MEAN 26.3 MAX 340 MIN 0 CFSM .53 IN 7.26 AC-FT 19,060

15564885 Jim River near Bettles

LOCATION.--Lat 66°47'05", long 150°52'10", on right bank 4.8 miles downstream from Prospect Creek, 12.3 miles upstream from South Fork Koyukuk River, 4 miles west of Prospect Creek, and 20 miles southeast of Bettles.

DRAINAGE AREA.--465 sq mi.

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 900 ft (from topographic map).

EXTREMES.--August to September 1970: Maximum discharge during period, 4,100 cfs Aug. 25 (gage height, 15.07 ft); minimum daily, 140 cfs Sept. 30.
Current year: Maximum discharge, 8,520 cfs May 30 (gage height, 16.84 ft); minimum daily, 32 cfs Jan. 16 to Apr. 14.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the period August to September 1970 and chemical analyses, water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											600	755
2											492	688
3											421	624
4											390	576
5											424	528
6											888	480
7											1,140	448
8											835	415
9											906	388
10											846	382
11											720	374
12											612	388
13											540	914
14											480	1,410
15											448	900
16											445	700
17											492	560
18											608	460
19											612	390
20											656	340
21											712	300
22											1,320	260
23											1,410	230
24											1,420	210
25											3,460	190
26											2,040	180
27											1,570	170
28											1,180	160
29					------						972	150
30					------						900	140
31		------			------		------		------		888	------
TOTAL											28,427	13,710
MEAN											917	457
MAX											3,460	1,410
MIN											390	140
CFSM											1.97	.98
IN.											2.27	1.10
AC-FT											56,380	27,190

15564885 Jim River near Bettles--(continued)

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	90	54	35	32	32	32	56	3,490	354	1,470	368
2	130	88	54	35	32	32	32	60	3,760	334	1,380	362
3	130	86	52	35	32	32	32	66	2,110	322	1,210	358
4	125	84	52	35	32	32	32	70	1,810	304	1,010	356
5	125	84	52	35	32	32	32	80	2,820	300	894	384
6	120	82	50	34	32	32	32	94	4,900	296	755	492
7	120	82	50	34	32	32	32	110	5,240	290	755	496
8	120	80	49	34	32	32	32	120	4,060	286	755	454
9	120	80	49	34	32	32	32	140	2,980	284	780	418
10	120	78	48	34	32	32	32	170	2,350	276	924	392
11	115	78	47	33	32	32	32	200	1,680	300	820	378
12	115	76	46	33	32	32	32	230	1,030	382	704	364
13	115	76	45	33	32	32	32	280	810	564	632	348
14	115	74	45	33	32	32	32	350	584	668	572	338
15	110	72	44	33	32	32	33	450	608	1,410	528	328
16	110	72	44	32	32	32	33	740	1,540	1,180	480	330
17	110	70	43	32	32	32	33	1,100	1,750	750	445	346
18	110	70	43	32	32	32	34	1,800	1,260	584	421	394
19	105	68	42	32	32	32	34	2,700	1,140	472	400	424
20	105	66	41	32	32	32	34	3,200	1,090	412	442	421
21	105	66	40	32	32	32	35	3,500	1,070	826	636	544
22	105	64	40	32	32	32	36	3,870	1,290	1,360	700	608
23	100	64	39	32	32	32	37	3,670	1,090	830	628	540
24	100	62	39	32	32	32	39	3,330	1,650	636	552	500
25	100	60	38	32	32	32	41	3,000	1,060	532	496	580
26	100	60	38	32	32	32	42	4,120	760	468	457	825
27	98	58	37	32	32	32	44	5,790	620	472	439	770
28	96	58	37	32	32	32	46	5,060	512	1,820	418	652
29	94	56	36	32	------	32	50	4,720	433	4,060	400	540
30	92	56	36	32	------	32	52	6,780	384	1,760	388	496
31	90	------	36	32	------	32	------	3,910	------	1,550	378	------
TOTAL	3,430	2,160	1,366	1,022	896	992	1,071	59,766	53,881	24,082	20,869	13,806
MEAN	111	72.0	44.1	33.0	32.0	32.0	35.7	1,928	1,796	777	673	460
MAX	130	90	54	35	32	32	52	6,780	5,240	4,060	1,470	825
MIN	90	56	36	32	32	32	32	56	384	276	378	328
CFSM	.24	.15	.09	.07	.07	.07	.08	4.15	3.86	1.67	1.45	.99
IN.	.27	.17	.11	.08	.07	.08	.09	4.78	4.31	1.93	1.67	1.10
AC-FT	6,800	4,280	2,710	2,030	1,780	1,970	2,120	118,500	106,900	47,770	41,390	27,380

WTR YR 1971 TOTAL 183,341 MEAN 502 MAX 6,780 MIN 32 CFSM 1.08 IN 14.67 AC-FT 363,700

NOTE.--No gage-height record Oct. 1 to May 21.

15564900 Koyukuk River at Hughes

LOCATION.--Lat 66°02'51", long 154°15'30", on left bank at Hughes, and 0.6 mile upstream from Hughes Creek.

DRAINAGE AREA.--18,700 sq mi, approximately.

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 250 ft (from topographic map). June 5 to Sept. 30, 1960, on right bank at same datum.

AVERAGE DISCHARGE.--11 years, 15,420 cfs (11,170,000 acre-ft per year).

EXTREMES.--Current year: Maximum discharge, 144,000 cfs May 20 (gage height, 25.1 ft, from floodmark); minimum daily, 530 cfs Mar. 11 to Apr. 15.
Period of record: Maximum discharge, 266,000 cfs June 6, 1964 (gage height, 31.09 ft); maximum gage height, 34.33 ft May 26, 1965 (from floodmarks, backwater from ice); minimum discharge not determined.
Flood of August 1937 reached a stage of about 34 ft, from information by local residents.

REMARKS.--Records good except those for the period of no gage-height record, which are poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,200	2,200	1,300	800	600	550	530	1,100	110,000	15,000	20,500	9,600
2	7,000	2,200	1,300	800	600	550	530	1,200	101,000	12,800	18,000	9,250
3	6,600	2,200	1,300	800	600	550	530	1,300	99,000	11,000	17,000	9,250
4	6,200	2,200	1,300	800	600	550	530	1,400	94,200	10,000	17,400	9,100
5	6,000	2,200	1,300	800	600	550	530	1,400	74,700	9,000	18,700	8,900
6	5,600	2,000	1,200	800	600	550	530	1,500	71,400	8,800	17,000	8,900
7	5,400	2,000	1,200	800	600	550	530	1,600	81,300	8,600	15,800	8,900
8	5,200	2,000	1,200	800	600	550	530	1,700	109,000	8,550	14,000	8,900
9	5,000	2,000	1,200	800	600	550	530	1,800	125,000	8,550	13,000	9,250
10	4,800	2,000	1,200	800	600	550	530	2,000	115,000	8,550	12,000	9,250
11	4,600	2,000	1,100	700	600	530	530	2,200	93,000	8,550	12,500	8,900
12	4,600	2,000	1,100	700	600	530	530	2,400	82,400	8,900	13,400	8,700
13	4,600	2,000	1,100	700	600	530	530	2,400	68,400	9,250	15,800	8,550
14	4,400	2,000	1,100	700	600	530	530	2,600	41,300	11,700	16,200	7,900
15	4,400	2,000	1,100	700	600	530	530	3,000	31,700	13,800	13,800	7,900
16	4,200	1,800	1,000	700	550	530	540	5,000	24,100	16,600	12,000	7,600
17	4,000	1,800	1,000	700	550	530	560	15,000	25,200	18,200	11,400	7,300
18	3,800	1,800	1,000	700	550	530	580	30,000	35,000	17,800	10,300	7,000
19	3,600	1,800	1,000	700	550	530	600	80,000	39,800	15,800	9,950	7,100
20	3,400	1,800	1,000	700	550	530	600	140,000	40,600	13,400	9,600	7,600
21	3,000	1,600	900	700	550	530	650	137,000	37,700	12,000	9,600	7,900
22	3,000	1,600	900	700	550	530	700	136,000	38,400	11,700	10,300	7,900
23	2,800	1,600	900	700	550	530	700	132,000	39,000	11,400	13,000	8,550
24	2,600	1,600	900	700	550	530	750	126,000	39,000	14,200	15,000	9,600
25	2,600	1,600	900	700	550	530	800	113,000	40,000	15,400	14,600	9,250
26	2,600	1,500	800	600	550	530	850	106,000	38,000	14,600	13,400	9,250
27	2,400	1,400	800	600	550	530	900	106,000	35,000	13,100	12,400	9,250
28	2,400	1,400	800	600	550	530	950	113,000	30,000	11,700	11,400	10,600
29	2,400	1,400	800	600	------	530	1,000	120,000	23,000	11,400	10,600	10,600
30	2,200	1,400	800	600	------	530	1,000	130,000	17,400	13,400	10,600	9,950
31	2,200	------	800	600	------	530	------	120,000	------	19,600	10,300	------
TOTAL	128,800	55,100	32,300	22,100	16,150	16,630	19,130	1,636.6M	1,799.6M	383,350	419,550	262,700
MEAN	4,155	1,837	1,042	713	577	536	638	52,790	59,990	12,370	13,530	8,757
MAX	7,200	2,200	1,300	800	600	550	1,000	140,000	125,000	19,600	20,500	10,600
MIN	2,200	1,400	800	600	550	530	530	1,100	17,400	8,550	9,600	7,000
AC-FT	255,500	109,300	64,070	43,840	32,030	32,990	37,940	3,246M	3,570M	760,400	832,200	521,100

CAL YR 1970 TOTAL 4,247,100 MEAN 11,640 MAX 82,400 MIN 260 AC-FT 8,424,000
WTR YR 1971 TOTAL 4,792,010 MEAN 13,130 MAX 140,000 MIN 530 AC-FT 9,505,000

NOTE.--No gage-height record Oct. 1 to May 20.

M.--Expressed in thousands.

15621000 Snake River near Nome

LOCATION.--Lat 64°33'51", long 165°30'26", in SE¼ sec.5, T.11 S., R.34 W., on downstream side of bridge on Nome-Teller Highway, 5.4 miles northwest of Nome.

DRAINAGE AREA.--85.7 sq mi, approximately.

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder and nonrecording gage read twice daily. Datum of gage is 8.58 ft above mean sea level (USC&GS data furnished by Alaska Highway Department - Nome).

AVERAGE DISCHARGE.--6 years, 174 cfs (126,100 acre-ft per year).

EXTREMES.--Current year: Maximum gage height observed, 12.91 ft June 1 (discharge not determined, ice jam); minimum daily discharge, 1.0 cfs Feb. 25 to May 15, but may have been no flow at times during the winter.
Period of record: Maximum discharge, 4,200 cfs June 2, 1966 (gage height, 11.90 ft); maximum gage height observed, 12.91 ft June 1, 1971 (backwater from ice); minimum discharge not determined, but may be no flow at times during some winters.

REMARKS.--Records good except those for the winter period, which are poor. Records of periodic chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	38	20	15	7.0	1.0	1.0	1.0	3,400	192	90	54
2	75	36	20	15	7.0	1.0	1.0	1.0	3,600	166	86	54
3	70	36	20	15	7.0	1.0	1.0	1.0	3,400	152	85	53
4	70	34	20	14	7.0	1.0	1.0	1.0	3,200	142	82	52
5	70	34	20	14	6.0	1.0	1.0	1.0	3,000	136	79	51
6	75	34	19	14	6.0	1.0	1.0	1.0	2,500	130	78	51
7	80	32	19	14	6.0	1.0	1.0	1.0	1,900	126	74	54
8	95	32	19	13	6.0	1.0	1.0	1.0	2,500	120	73	54
9	95	32	19	13	5.0	1.0	1.0	1.0	2,290	114	71	52
10	90	30	19	13	5.0	1.0	1.0	1.0	1,970	140	69	52
11	85	30	18	13	5.0	1.0	1.0	1.0	2,250	150	67	53
12	80	30	18	12	5.0	1.0	1.0	1.0	1,820	198	65	52
13	75	28	18	12	4.0	1.0	1.0	1.0	1,100	252	64	50
14	70	28	18	12	4.0	1.0	1.0	1.0	820	238	62	49
15	65	28	18	12	4.0	1.0	1.0	1.0	852	196	62	49
16	65	26	17	11	4.0	1.0	1.0	2.0	1,200	176	62	48
17	60	26	17	11	3.0	1.0	1.0	5.0	868	166	74	47
18	60	26	17	11	3.0	1.0	1.0	10	686	156	90	47
19	55	26	17	11	3.0	1.0	1.0	15	527	144	76	47
20	55	26	17	10	3.0	1.0	1.0	20	512	134	69	62
21	50	24	16	10	2.0	1.0	1.0	25	463	152	66	58
22	50	24	16	10	2.0	1.0	1.0	35	457	138	64	56
23	48	24	16	10	2.0	1.0	1.0	50	385	132	62	66
24	46	24	16	9.0	2.0	1.0	1.0	70	422	124	61	154
25	44	24	16	9.0	1.0	1.0	1.0	100	390	118	60	240
26	44	22	16	9.0	1.0	1.0	1.0	160	332	118	59	228
27	42	22	16	9.0	1.0	1.0	1.0	250	290	108	59	204
28	42	22	15	8.0	1.0	1.0	1.0	350	254	104	61	208
29	40	22	15	8.0	------	1.0	1.0	600	238	104	59	248
30	40	22	15	8.0	------	1.0	1.0	900	216	102	57	272
31	38	------	15	8.0	------	1.0	------	1,600	------	96	56	------
TOTAL	1,949	842	542	353.0	112.0	31.0	30.0	4,207.0	41,842	4,524	2,142	2,765
MEAN	62.9	28.1	17.5	11.4	4.00	1.00	1.00	136	1,395	146	69.1	92.2
MAX	95	38	20	15	7.0	1.0	1.0	1,600	3,600	252	90	272
MIN	38	22	15	8.0	1.0	1.0	1.0	1.0	216	96	56	47
AC-FT	3,870	1,670	1,080	700	222	61	60	8,340	82,990	8,970	4,250	5,480

CAL YR 1970 TOTAL 36,584.0 MEAN 100 MAX 1,400 MIN 15 AC-FT 72,560
WTR YR 1971 TOTAL 59,339.0 MEAN 163 MAX 3,600 MIN 1.0 AC-FT 117,700

NOTE.--No gage-height record Oct. 1 to May 23.

15712000 Kuzitrin River near Nome

LOCATION.--Lat 65°13'17", long 164°37'15", in SE¼ sec.16, T.3 S., R.29 W., on left bank at Bunker Hill, 4.5 miles downstream from Kougarok River, 4.7 miles upstream from Idaho Creek, and 55 miles northeast of Nome.

DRAINAGE AREA.--1,720 sq mi, approximately.

PERIOD OF RECORD.--June 1908 to September 1910 (published in WSP 314 as "at Lanes Landing" and in WSP 1372 as "near Bunker Hill," no winter records), July 1962 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (from topographic map). June 1908 to September 1910, at sites near present gage at different datum.

AVERAGE DISCHARGE.--9 years, 1,171 cfs (848,400 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, about 40,000 cfs June 3, estimated by hydrographic comparison; maximum gage-height, 16.5 ft about June 1 (from floodmarks, backwater from ice); no flow Mar. 1 to May 15.
Period of record: Maximum daily discharge, about 40,000 cfs June 3, 1971, estimated by hydrographic comparison; maximum gage-height, 17.45 ft May 28, 1910 (ice jam), site and datum then in use; no flow for long periods most winters.

REMARKS.--Records poor. Records of chemical analyses and periodic suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	130	80	50	17			0	15,000	1,200	460	320
2	190	130	80	50	16			0	35,000	1,100	460	320
3	190	130	80	48	16			0	40,000	1,000	440	320
4	180	130	80	46	15			0	35,000	900	440	320
5	180	120	80	46	14			0	32,000	800	420	320
6	200	120	75	44	14			0	26,000	750	400	320
7	220	120	75	42	13			0	24,000	700	380	320
8	260	120	75	42	12			0	20,000	700	360	320
9	300	120	75	40	12			0	18,000	650	360	340
10	280	120	75	38	11			0	16,000	650	340	340
11	260	110	70	38	11			0	13,000	650	340	340
12	240	110	70	36	10			0	10,400	680	320	340
13	230	110	70	34	10			0	8,900	720	320	340
14	220	110	70	34	9.0			0	7,340	800	315	320
15	200	110	70	32	9.0			0	6,400	851	305	320
16	190	100	65	30	8.0			5.0	6,160	850	305	320
17	180	100	65	30	8.0			10	5,500	850	305	320
18	180	100	65	30	7.0			15	5,000	800	326	300
19	170	100	65	28	7.0			20	4,400	800	368	300
20	160	100	60	28	6.0			25	3,800	750	396	300
21	160	95	60	26	6.0			30	3,400	750	380	300
22	150	95	60	26	5.0			35	3,000	700	374	360
23	150	95	60	24	4.0			40	2,600	700	368	380
24	150	90	55	24	4.0			50	2,400	650	362	360
25	140	90	55	22	3.0			70	2,200	650	350	440
26	140	90	55	22	2.0			100	2,000	600	338	550
27	140	85	55	20	2.0			150	1,800	600	326	650
28	140	85	55	20	1.0			300	1,600	550	326	700
29	140	85	50	19	------			500	1,500	550	326	650
30	130	85	50	18	------			1,500	1,400	500	326	650
31	130	------	50	18	------		------	5,000	------	500	320	------
TOTAL	5,800	3,185	2,050	1,005	252.0	0	0	7,850.0	353,800	22,951	11,156	11,480
MEAN	187	106	66.1	32.4	9.00	0	0	253	11,790	740	360	383
MAX	300	130	80	50	17	0	0	5,000	40,000	1,200	460	700
MIN	130	85	50	18	1.0	0	0	0	1,400	500	305	300
AC-FT	11,500	6,320	4,070	1,990	500	0	0	15,570	701,800	45,520	22,130	22,770

CAL YR 1970 TOTAL 252,240.0 MEAN 691 MAX 19,900 MIN 50 AC-FT 500,300
WTR YR 1971 TOTAL 419,529.0 MEAN 1,149 MAX 40,000 MIN 0 AC-FT 832,100

NOTE.--No gage-height record except for occasional days.

15744000 Kobuk River at Ambler

LOCATION.--Lat 67°05'13", long 157°50'51", in SE¼ sec.31, T.20 N., R.5 E., on right bank at village of Ambler, and 2 miles downstream from Ambler River.

DRAINAGE AREA.--6,570 sq mi, approximately.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 30 ft (from topographic map).

AVERAGE DISCHARGE.--6 years, 8,813 cfs (6,385,000 acre-ft per year).

EXTREMES.--Current year: Maximum daily discharge, 95,000 cfs May 29; maximum gage height, 40.91 ft May 28, from floodmarks (backwater from ice); minimum daily discharge, 900 cfs Apr. 1 to May 8.
Period of record: Maximum daily discharge, 95,000 cfs May 29, 1971; maximum gage height, 44.1 ft June 1, 1968, from floodmarks (backwater from ice); minimum discharge not determined.

REMARKS.--Records fair except those for the period of no gage-height record, which are poor. Records of chemical analyses and periodic suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,000	2,200	1,500	1,100	1,000	950	900	900	88,600	12,800	14,400	5,600
2	3,800	2,200	1,500	1,100	1,000	950	900	900	86,800	11,600	13,200	5,400
3	3,800	2,200	1,500	1,100	1,000	950	900	900	82,300	10,400	12,400	5,400
4	3,600	2,200	1,500	1,100	1,000	950	900	900	77,800	9,300	11,600	5,400
5	3,600	2,200	1,500	1,100	1,000	950	900	900	74,400	9,000	11,200	5,400
6	3,600	2,000	1,500	1,100	1,000	950	900	900	68,800	8,700	10,800	5,400
7	3,400	2,000	1,400	1,100	1,000	950	900	900	69,600	8,400	10,000	5,200
8	3,400	2,000	1,400	1,100	1,000	950	900	900	72,800	8,100	9,600	5,200
9	3,400	2,000	1,400	1,100	1,000	950	900	950	74,400	7,800	9,300	5,200
10	3,200	2,000	1,400	1,100	1,000	950	900	1,000	72,000	8,100	8,700	5,200
11	3,200	1,900	1,400	1,000	1,000	950	900	1,000	67,200	14,400	8,400	5,000
12	3,200	1,900	1,400	1,000	1,000	950	900	1,100	57,600	16,100	8,100	5,000
13	3,000	1,900	1,300	1,000	1,000	950	900	1,100	45,700	15,600	7,800	5,000
14	3,000	1,800	1,300	1,000	1,000	950	900	1,300	31,000	18,600	7,500	4,800
15	3,000	1,800	1,300	1,000	1,000	950	900	1,500	26,800	23,200	7,200	4,800
16	3,000	1,800	1,300	1,000	1,000	950	900	2,000	28,000	25,600	6,900	4,800
17	2,800	1,800	1,300	1,000	1,000	950	900	3,000	30,400	22,600	6,900	4,800
18	2,800	1,800	1,300	1,000	1,000	950	900	4,000	30,400	19,100	6,900	5,000
19	2,800	1,700	1,200	1,000	1,000	950	900	6,000	28,600	15,200	6,600	5,000
20	2,800	1,700	1,200	1,000	1,000	950	900	9,000	26,200	14,000	6,600	5,400
21	2,600	1,700	1,200	1,000	1,000	950	900	13,000	25,000	13,600	6,600	6,600
22	2,600	1,700	1,200	1,000	1,000	950	900	20,000	24,400	15,600	6,300	8,100
23	2,600	1,700	1,200	1,000	1,000	950	900	40,000	23,800	17,100	6,600	8,700
24	2,600	1,700	1,200	1,000	1,000	950	900	55,000	24,400	17,600	6,300	9,000
25	2,400	1,600	1,200	1,000	1,000	950	900	70,000	24,400	14,000	6,300	11,600
26	2,400	1,600	1,100	1,000	1,000	950	900	80,000	22,100	13,600	6,300	18,100
27	2,400	1,600	1,100	1,000	1,000	950	900	90,000	20,100	14,400	6,000	18,600
28	2,400	1,600	1,100	1,000	1,000	950	900	90,000	17,600	18,600	6,000	16,600
29	2,400	1,600	1,100	1,000	------	950	900	95,000	15,200	17,100	5,800	14,400
30	2,200	1,600	1,100	1,000	------	950	900	90,000	14,000	17,600	5,800	12,400
31	2,200	------	1,100	1,000	------	950	------	90,000	------	15,600	5,600	------
TOTAL	92,200	55,500	40,200	32,000	28,000	29,450	27,000	772,150	1,350.4M	453,400	251,700	227,100
MEAN	2,974	1,850	1,297	1,032	1,000	950	900	24,910	45,010	14,630	8,119	7,570
MAX	4,000	2,200	1,500	1,100	1,000	950	900	95,000	88,600	25,600	14,400	18,600
MIN	2,200	1,600	1,100	1,000	1,000	950	900	900	14,000	7,800	5,600	4,800
AC-FT	182,900	110,100	79,740	63,470	55,540	58,410	53,550	1,532M	2,679M	899,300	499,200	450,500

CAL YR 1970 TOTAL 2,194,300 MEAN 6,012 MAX 55,000 MIN 950 AC-FT 4,352,000
WTR YR 1971 TOTAL 3,359,100 MEAN 9,203 MAX 95,000 MIN 900 AC-FT 6,663,000

NOTE.--No gage-height record Oct. 1 to May 28.
M.-- Expressed in thousands.

15746000 Noatak River at Noatak

LOCATION.--Lat 67°34'18", long 162°56'38", on right bank 300 ft upstream from post office at village of Noatak.

DRAINAGE AREA.--12,000 sq mi, approximately.

PERIOD OF RECORD.--August 1965 to September 1971 (discontinued). No winter records.

GAGE.--Nonrecording gage read twice daily. Altitude of gage is 50 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 153,000 cfs, probably occurred during the period May 25-31 (gage height, 28.0 ft from floodmark); minimum not determined.
Period of record: Maximum discharge not determined; minimum not determined.

REMARKS.--Records poor. Records of periodic suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	750								140,000	20,400	21,200	12,400
2	500								140,000	17,300	19,600	11,000
3	400								130,000	15,200	18,000	9,900
4	400								130,000	13,100	15,900	9,300
5	380								120,000	11,000	14,500	8,200
6	360								120,000	10,500	13,100	7,700
7	360								120,000	10,500	11,700	7,200
8	340								120,000	9,900	11,000	6,700
9	340								130,000	9,300	10,500	6,200
10	320								120,000	9,900	9,300	6,200
11	320								106,000	11,000	9,300	5,200
12	300								77,000	17,300	8,200	5,200
13	300								64,500	39,000	7,700	4,700
14	280								51,000	35,400	7,200	4,250
15	280								41,400	37,800	6,700	4,250
16	280								39,000	37,800	6,200	4,250
17	260								40,200	29,400	6,200	3,800
18	260								48,000	26,000	6,200	3,800
19	260								43,800	21,200	11,700	3,800
20	240								45,000	18,800	23,000	3,800
21	240								45,000	15,900	26,000	3,800
22	240								45,000	15,200	24,000	4,250
23	240								45,000	18,800	20,400	4,700
24	220								43,800	24,000	17,300	6,700
25	220								43,800	26,000	15,900	12,400
26	220								42,600	20,400	14,500	19,600
27	220								37,800	18,000	13,100	19,600
28	200								31,800	17,300	14,500	18,800
29	200				------				27,000	16,600	14,500	18,000
30	200				------				26,000	25,000	13,800	10,500
31	200	------			------		------		------	24,000	13,100	------
TOTAL	9,330								2,213.7M	622,000	424,300	246,200
MEAN	301								73,790	20,060	13,690	8,207
MAX	750								140,000	39,000	26,000	19,600
MIN	200								26,000	9,300	6,200	3,800
AC-FT	18,510								4,391M	1,234M	841,600	488,300

M.--Expressed in thousands.

15896000 Kuparuk River near Deadhorse

LOCATION.--Lat 70°16'54", long 148°57'35", in NE¼ sec.25, T.11 N., R.12 E., near right bank, 1.8 miles northeast of SE Eileen State No. 1, 2.1 miles south of Rivers Camp Service City, 10 miles from mouth on Gwyder Bay, and 13 miles northwest of Deadhorse.

DRAINAGE AREA.--3,130 sq mi.

PERIOD OF RECORD.--June to September 1971.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by private engineering firm).

EXTREMES.--Period June to September 1971: Maximum discharge, 77,000 cfs June 5 (gage height, 36.40 ft); minimum daily, 160 cfs Sept. 28-30.

REMARKS.--Records poor. Records of chemical analyses, water temperatures, and suspended-sediment loads for the current year are published in Part 2 of this report.

COOPERATION.--Logistical support provided by British Petroleum of Alaska, Inc.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									15,000	346	295	219
2									26,000	320	287	216
3									42,000	295	291	213
4									70,000	268	360	213
5									77,000	240	365	213
6									70,000	231	410	213
7									54,000	222	586	213
8									40,000	216	796	258
9									32,000	213	944	287
10									25,000	228	859	320
11									18,000	240	880	303
12									14,000	254	775	283
13									10,000	261	634	261
14									8,000	303	518	254
15									6,000	356	464	250
16									4,500	365	416	240
17									4,000	365	375	230
18									3,400	338	351	220
19									3,000	328	338	210
20									2,700	351	311	200
21									2,400	360	291	200
22									2,000	360	275	190
23									1,800	338	272	190
24									1,650	328	272	180
25									1,320	311	268	180
26									817	299	268	170
27									598	320	268	170
28									526	315	268	160
29					------				422	324	268	160
30					------				380	303	268	160
31		------			------		------		------	299	244	------
TOTAL									536,513	9,297	13,217	6,576
MEAN									17,880	300	426	219
MAX									77,000	365	944	320
MIN									380	213	244	160
CFSM									5.71	.10	.14	.07
IN.									6.38	.11	.16	.08
AC-FT									1,064M	18,440	26,220	13,040

15896700 Putuligayuk River near Deadhorse

LOCATION.--Lat 70°16'08", long 148°37'11", in NE¼ sec.32, T.11 N., R.14 E., on right upstream wingwall of culvert causeway, 0.4 mile downstream from unnamed tributary, 7.3 miles from mouth on Prudhoe Bay, and 6.2 miles northwest of Deadhorse.

DRAINAGE AREA.--176 sq mi, approximately.

PERIOD OF RECORD.--May 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by private engineering firm).

EXTREMES.--Current year: Maximum discharge, 4,980 cfs June 6 (gage height, 24.50 ft); no flow Oct. 1 to May 26.
Period of record: Maximum discharge, 4,980 cfs June 6, 1971 (gage height, 24.50 ft); no flow during winter periods each year.

REMARKS.--Records poor. Records of chemical analyses and suspended-sediment loads for the current year are published in Part 2 of this report.

COOPERATION.--Logistical support provided by British Petroleum of Alaska, Inc.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								0	10	20	2.5	1.5
2								0	20	18	2.0	1.5
3								0	60	16	2.0	1.5
4								0	300	14	2.0	1.5
5								0	1,520	14	2.0	1.5
6								0	4,320	12	2.0	1.5
7								0	2,200	10	2.0	1.5
8								0	1,500	10	2.0	1.5
9								0	1,000	9.0	2.0	1.5
10								0	700	8.0	2.0	1.5
11								0	500	7.5	2.0	1.5
12								0	300	7.0	2.0	1.5
13								0	200	6.5	2.0	1.5
14								0	150	6.0	2.0	1.5
15								0	130	5.5	1.5	1.5
16								0	110	5.0	1.5	1.5
17								0	100	5.0	1.5	1.5
18								0	90	5.0	1.5	1.5
19								0	80	4.5	1.5	1.5
20								0	70	4.0	1.5	1.5
21								0	60	4.0	1.5	1.5
22								0	55	3.5	1.5	1.5
23								0	53	3.5	1.5	1.0
24								0	50	3.5	1.5	1.0
25								0	40	3.0	1.5	1.0
26								0	35	3.0	1.5	1.0
27								1.0	30	3.0	1.5	1.0
28								1.5	28	3.0	1.5	1.0
29					------			2.0	24	2.5	1.5	1.0
30					------			3.0	22	2.5	1.5	1.0
31		------			------		------	6.0	------	2.5	1.5	------
TOTAL	0	0	0	0	0	0	0	13.5	13,757	221.0	54.0	41.0
MEAN	0	0	0	0	0	0	0	.44	459	7.13	1.74	1.37
MAX	0	0	0	0	0	0	0	6.0	4,320	20	2.5	1.5
MIN	0	0	0	0	0	0	0	0	10	2.5	1.5	1.0
AC-FT	0	0	0	0	0	0	0	27	27,290	438	107	81

WTR YR 1971 TOTAL 14,086.5 MEAN 38.6 MAX 4,320 MIN 0 AC-FT 27,940

NOTE.--No gage-height record Oct. 1 to June 4, June 9 to Sept. 30

15910000 Sagavanirktok River near Sagwon

LOCATION.--Lat 69°05'20", long 147°45'10", on right bank 0.6 mile downstream from Lupine River, 33.5 miles upstream from Ivishak River, and 20 miles south of Sagwon.

DRAINAGE AREA.--2,208 sq mi.

PERIOD OF RECORD.--August 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft (from topographic map).

EXTREMES.--August to September 1970: Maximum discharge during period, 4,640 cfs Aug. 23 (gage height, 12.38 ft); maximum discharge for water year 1970, 15,200 cfs probably in June (gage height, 14.6 ft) from slope-area measurement of peak flows; minimum not determined. Water year 1971: Maximum discharge, 19,300 cfs June 8 (gage height, 15.27 ft); minimum daily, 1.5 cfs Mar. 21 to May 14.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Records of chemical analyses, water temperature, and suspended-sediment loads for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											-	2,680
2											-	2,380
3											-	2,150
4											-	1,900
5											-	1,710
6											-	1,530
7											-	1,390
8											-	1,270
9											-	1,180
10											-	1,100
11											3,650	1,200
12											3,110	1,280
13											2,780	1,700
14											2,620	2,360
15											2,480	1,880
16											2,370	1,500
17											2,490	1,300
18											2,570	1,100
19											2,640	1,000
20											2,880	900
21											2,640	800
22											3,500	720
23											4,340	680
24											3,500	640
25											3,530	600
26											3,480	560
27											4,520	520
28											3,800	500
29					------						4,160	470
30					------						3,890	460
31		------			------		------		------		3,110	------
TOTAL												37,460
MEAN												1,249
MAX												2,680
MIN												460
CFSM												.57
IN.												.63
AC-FT												74,300

NOTE.--No gage-height record Sept. 19-30.

15910000 Sagavanirktok River near Sagwon--(continued).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	300	100	6.5	3.0	2.0	1.5	1.5	9,500	2,190	4,790	1,260
2	440	290	90	6.0	3.0	2.0	1.5	1.5	8,780	1,860	4,880	1,200
3	440	290	80	6.0	3.0	2.0	1.5	1.5	7,420	1,750	5,750	1,150
4	430	280	70	5.5	3.0	2.0	1.5	1.5	6,170	1,960	5,300	1,100
5	430	280	64	5.5	3.0	2.0	1.5	1.5	7,140	2,420	4,790	1,050
6	420	280	60	5.0	3.0	2.0	1.5	1.5	11,000	2,840	4,100	1,020
7	420	270	56	5.0	3.0	2.0	1.5	1.5	14,600	3,130	3,770	1,000
8	410	270	50	4.5	2.5	2.0	1.5	1.5	15,500	3,560	4,220	960
9	400	270	45	4.5	2.5	2.0	1.5	1.5	12,500	3,680	3,710	940
10	400	260	40	4.5	2.5	2.0	1.5	1.5	11,600	3,530	3,170	920
11	390	260	38	4.0	2.5	2.0	1.5	1.5	7,820	5,810	2,860	900
12	380	250	35	4.0	2.5	2.0	1.5	1.5	4,610	8,180	2,600	860
13	380	250	30	4.0	2.5	2.0	1.5	1.5	2,680	6,200	2,400	820
14	370	250	27	4.0	2.5	2.0	1.5	1.5	1,770	5,120	2,220	800
15	370	250	25	4.0	2.5	2.0	1.5	2.0	1,500	5,600	1,970	760
16	370	230	23	4.0	2.5	2.0	1.5	2.0	2,410	5,630	1,760	740
17	360	230	21	3.5	2.5	2.0	1.5	2.0	3,400	4,550	1,580	720
18	360	220	19	3.5	2.5	2.0	1.5	2.0	7,660	3,650	1,490	680
19	350	220	17	3.5	2.5	2.0	1.5	2.0	12,800	3,300	1,430	660
20	350	210	15	3.5	2.5	2.0	1.5	2.5	9,180	3,500	1,500	640
21	340	210	14	3.5	2.5	1.5	1.5	2.5	10,200	4,220	1,720	620
22	340	200	13	3.5	2.5	1.5	1.5	3.0	10,900	7,420	1,590	620
23	330	190	12	3.5	2.5	1.5	1.5	3.5	14,600	9,550	1,510	600
24	330	190	11	3.5	2.5	1.5	1.5	4.0	14,600	8,020	1,470	580
25	320	180	10	3.5	2.5	1.5	1.5	5.0	10,900	6,140	1,440	560
26	320	170	9.5	3.0	2.0	1.5	1.5	20	8,940	5,030	1,410	540
27	320	150	9.0	3.0	2.0	1.5	1.5	50	7,500	5,000	1,380	540
28	310	140	8.5	3.0	2.0	1.5	1.5	150	5,900	4,610	1,350	520
29	310	120	8.0	3.0	------	1.5	1.5	500	3,740	10,900	1,340	500
30	300	110	7.5	3.0	------	1.5	1.5	1,500	2,760	7,380	1,350	500
31	300	------	7.0	3.0	------	1.5	------	3,500	------	5,600	1,300	------
TOTAL	11,440	6,820	1,014.5	126.5	72.0	56.5	45.0	5,771.5	248,080	152,330	80,150	23,760
MEAN	369	227	32.7	4.08	2.57	1.82	1.50	186	8,269	4,914	2,585	792
MAX	450	300	100	6.5	3.0	2.0	1.5	3,500	15,500	10,900	5,750	1,260
MIN	300	110	7.0	3.0	2.0	1.5	1.5	1.5	1,500	1,750	1,300	500
CFSM	.17	.10	.01	.002	.001	.0008	.0007	.08	3.75	2.23	1.17	.36
IN.	.19	.11	.02	.002	.001	0	0	.10	4.18	2.57	1.35	.40
AC-FT	22,690	13,530	2,010	251	143	112	89	11,450	492,100	302,100	159,000	47,130

WTR YR 1971 TOTAL 529,666.0 MEAN 1,451 MAX 15,500 MIN 1.5 CFSM .66 IN 8.92 AC-FT 1,051,000

NOTE.--No gage-height record Oct. 1 to May 20, Sept. 2-30.

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in flood-flow analyses. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in one table, and discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Southeastern Alaska					
15010500	Halibut Bay Tributary near Hyder	Lat 55°15'00", long 130°06'00", on left bank 0.3 mile upstream from mouth at Halibut Bay, and 58 miles south of Hyder.	8.58	1963-70	9- 4-66 8-14-69	++14.28 ++13.29	++2,950 1,320
15011900	Cabin Creek near Ketchikan	Lat 55°19'19", long 130°47'00", on left bank 1,000 ft upstream from mouth on north side of Smeaton Bay, and 33 miles east of Ketchikan.	8.80	1965-70	9-23-67 4- 9-68 11-19-68 ++9-26-70	++11.41 ++10.14 11.00 ++11.28	++1,400 ++720 ++1,150 ++1,300
15019000	Black Bear Creek near Meyers Chuck	Lat 55°43'30", long 132°09'48", 1 mile downstream from unnamed tributary, 1.5 miles upstream from mouth at Union Bay, and 3.8 miles south of Meyers Chuck.	16.5	1963-70	2-17 or 18-65 3-29-66 1-23-68 11-19-68 ++11-28-69	++14.37 16.76 15.75 15.41 14.68	++1,850 ++3,470 ++2,800 ++2,550 ++2,050
15054500	Bessie Creek near Auke Bay	Lat 58°35'30", long 134°54'00", in SE¼ sec.7, T.38 S., R.63 E., 800 ft upstream from mouth at Yankee Cove on eastern shore of Lynn Canal, and 16.5 miles northwest of Auke Bay.	1.35	1967-71	9-15-67 9-27-68 9-28-70 5- 6-71	6.88 6.31 ++7.18 6.75	++150 ++68 203 128
15057500	William Henry Creek near Auke Bay	Lat 58°44'46", long 135°14'25", about 600 ft upstream from mouth on western shore of Lynn Canal about 2 miles north of entrance to William Henry Bay, and 20.5 miles northwest of Auke Bay.	1.58	1967-71	1971	(+)	(+)
15079800	Klu Creek near Bell Island	Lat 55°50'30", long 131°25'20", in SW¼ sec.35, T.69 S., R.91 E., 0.5 mile upstream from mouth at Klu Bay, and 8.5 miles southeast of Bell Island.	5.97	1963-67	9- 7-64	++13.02	++1,050
15081490	Natzuhini Creek near Hydaburg	Lat 55°17'08", long 132°49'18", on Prince of Wales Island, in Tongass National Forest, 0.2 mile upstream from mouth of Natzuhini Bay and 5.5 miles north of Hydaburg.	9.10	1971	8-19-71	21.17	(+)
15086900	Red Creek near Point Baker	Lat 56°15'36", long 133°19'34", on Prince of Wales Island, in Tongass National Forest, 0.2 mile upstream from Red Bay tide flats, and 13 miles southeast of Point Baker.	11.2	1971	9-12-71	17.34	740
15087500	Twin Creek near Petersburg	Lat 56°43'13", long 132°55'33", in NE¼NW¼ sec.35, T.59 S., R.79 E., on Mitkof Island, at Mitkof Highway bridge 600 ft upstream from mouth at Wrangell Narrows, and 7.5 miles south of Petersburg.	3.82	1967-71	9-28-68 9-28-70 8-19-71	++10.51 ++10.15 10.02	++290 ++420 290
15101600	Wheeler Creek near Douglas	Lat 58°01'49", long 134°46'08", in SE¼NE¼ sec.27, T.44 S., R.65 E., on Admiralty Island in Tongass National Forest, on left bank, 2.4 miles above mouth at Game Cove in Chatham Strait, and 22 miles southwest of Douglas.	57.1	1971	d8-20-71	19.20	e696
15101800	Fishery Creek near Angoon	Lat 57°45'45", long 134°42'21", on west shore of Admiralty Island in Tongass National Forest, approximately 0.5 mile upstream from mouth of the stream, and 19 miles northwest of Angoon.	54.3	1971	8-19-71	(+)	1,240

d Date of observation.
e Observed.
++ Revised.
(+) Not determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Southeastern Alaska					
15102350	North Arm Creek near Angoon	Lat 57°23'48", long 134°19'24", on Admiralty Island, in Tongass National Forest, 600 ft upstream from the mouth of the North Arm of Hood Bay, and 12 miles southeast of Angoon.	8.64	1971	d8-23-71	e19.28	e425
15108250	Game Creek near Hoonah	Lat 58°03'20", long 135°29'21", in SE¼SE¼ sec.18, T.44 S., R.61 E., in Tongass National Forest, 2 miles upstream from mouth, and 4.5 miles southwest of Hoonah.	42.8	1970-71	5- 7-71	9.86	6,500
		Alaska west of longitude 141°					
15198500	Station Creek near Mentasta	Lat 62°56'02", long 143°40'06", SE¼ sec.3, T.13 N., R.9 E., on left bank 40 ft upstream from wooden bridge on Mentasta Village road, 1 mile from Glenn Highway, and 4 miles east of Mentasta.	15.3	1970-71	7- -70 8-10-71	n10.25 9.09	n28 b3.0
15199000	Copper River Tributary near Slana	Lat 62°43'03", long 144°14'21", SW¼ sec.23, T.11 N., R.6 E., on right bank 20 ft upstream from culvert at mile 51.8 on the Slana-Tok Highway, and 9 miles west of Slana.	4.32	1963-71	8- -71	10.65	19
15200000	Gakona River at Gakona	Lat 62°18'06", long 145°18'20", in NW¼ sec.18, T.6 N., R.1 E., at Glenn Highway bridge at Gakona, just upstream from mouth, and 1.7 miles northeast of junction of Glenn-Richardson Highways.	620	#1950-70 1971	8-10-71	8.10	10,500
15201000	Dry Creek near Glennallen	Lat 62°08'49", long 145°28'31", NE¼ sec.7, T.4 N., R.1 W., on right bank at mile 119 Richardson Highway, and 3.3 miles north of Glennallen.	11.4	1963-71	8- -71	10.84	26
15201100	Little Nelchina River Tributary near Eureka Lodge	Lat 61°59'17", long 147°00'34", on right bank at mile 132 Glenn Highway, and 6 miles northeast of Eureka Lodge.	7.81	1965-71	8- -71	9.76	26
15201900	Moose Creek Tributary at Glennallen	Lat 62°06'32", long 145°30'57", in SE¼ sec.23, T.4 N., R.2 W., on right bank at mile 188 Glenn Highway, and 0.2 mile west of post office at Glennallen.	7.12	1963-71	8- -71	11.66	8.4
15208200	Rock Creek near Tonsina	Lat 61°45'32", long 145°09'14", in NW¼ sec.25, T.1 S., R.1 E., on right bank of Richardson Highway at mile 86.1, and 6.7 miles north of Tonsina Lodge.	14.3	1966-71	8- -71	9.58	34
15208500	Fivemile Creek near Chitina	Lat 61°34'55", long 144°26'10", on left bank at mile 35 Edgerton Cutoff road, 0.4 mile upstream from Copper River, and 4.6 miles north of Chitina.	13.2	1964-68	8- -64 6- -65	11.78 13.49	++230 n412
15211700	Strelna Creek near Chitina	Lat 61°30'40", long 144°04'00", in NE¼ sec.22, T.4 S., R.7 E., on Chitina-McCarthy road, and 13 miles east of Chitina.	23.8	1971	7- -71	11.06	208
15211900	O'Brien Creek near Chitina	Lat 61°27'59", long 144°27'23", 100 ft upstream from timber bridge on trail to Copper River gaging station, 0.1 mile upstream from Copper River, and 2.5 miles south of Chitina.	44.8	1970-71	7- -71	7.32	1,670
15212500	Boulder Creek near Tiekel	Lat 61°20'08", long 145°18'26", on right upstream wingwall at mile 51.4 Richardson Highway, and 0.7 mile north of Tiekel.	9.80	1964-71	++7- -65 7- -71	++10.90 10.58	++290 408
15219100	Control Creek near Cordova	Lat 60°45'00", long 146°14'00", 0.5 mile upstream from Olsen Bay, and 21.6 miles northwest of Cordova.	4.22	1964-71	5- -71	11.57	450
15236200	Shakespeare Creek at Whittier	Lat 60°46'35", long 148°43'35", NE¼ sec.22, T.8 N., R.4 E., on upstream right wingwall of concrete bridge 0.5 mile upstream from mouth, and 1.8 miles at the Alaska Railroad terminal building.	3.05	1970-71	10- 7-69 1971	11.95 10.00	n500 200

b At least this high.
d Date of observation.
e Observed.
n Not previously published.
++ Revised.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Alaska west of longitude 141°					
15237400	Chalmers River near Cordova	Lat 60°13'10", long 147°13'30", in SE¼ sec.32, T.1 N., R.13 E., on Montague Island, 1.2 miles upstream from Port Chalmers, and 58 miles southwest of Cordova.	6.32	1967-71	8- 1-71	11.96	2,440
15238000	Lost Creek near Seward	Lat 60°11'50", long 149°22'30", in NW¼ sec.12, T.1 N., R.1 W., on downstream side of bridge pier on right end of bridge, 4.8 miles below Lost Lake, and 6.8 miles north of Seward.	7.96	1963-71	10-31-70	10.80	350
15239500	Fritz Creek near Homer	Lat 59°42'30", long 151°20'35", in SW¼ sec.28, T.5 S., R.12 W., on left bank 200 ft above culvert on east road, and 9 miles northeast of Homer.	10.4	1963-71	11- 1-70	12.56	349
15239800	Diamond Creek near Homer	Lat 59°40'10", long 151°40'00", in SE¼ sec.9, T.6 S., R.14 W., on right bank of Sterling Highway, 1.3 miles above Cook Inlet, and 4.6 miles northwest of Homer.	5.35	1963-71	11- 7-70	12.14	84
15240500	Cook Inlet Tributary near Ninilchik	Lat 59°58'45", long 151°43'20", on left upstream culvert wingwall on Sterling Highway, 0.2 mile above Cook Inlet, and 5.4 miles southwest of Ninilchik.	1.69	1966-71	5- -66 1967 6- -68 6- -69 1970 11- -70	12.54 ++11.47 11.94 ++11.72 12.00 12.34	n73 n25 n49 n40 n51 65
15242000	Kasilof River near Kasilof	Lat 60°19'05", long 151°15'35", in SW¼ sec.30, T.3 N., R.11 W., at Sterling Highway Bridge, 0.9 mile upstream from Crooked Creek, 1 mile south of Kasilof Post Office, 4 miles downstream from Moosehead Rapids, and 10 miles downstream from Tustumena Lake (117 sq mi).	738	#1949-70, 1971	1971	7.10	11,000
15243950	Porcupine Creek near Primrose	Lat 60°20'30", long 149°22'15", on 18-mile campground road, 0.2 mile above Kenai Lake, and 0.8 mile west of Primrose.	16.8	1963-71	9- -65 10-31-71	11.41 10.90	++760 640
15254000	Crescent Creek near Cooper Landing	Lat 60°29'50", long 149°40'40", on left bank at bridge on old Seward-Kenai Highway, 4.2 miles downstream from Crescent Lake, and 4.4 miles east of Cooper Landing.	31.7	#1949-66, 1967-71	6- -71	11.55	560
15269500	Granite Creek near Portage	Lat 60°43'40", long 149°17'00", on upstream side of center pier of bridge on Seward-Anchorage Highway, and 12 miles southwest of Portage.	28.2	1967-71	6- -71	10.64	960
15270400	Donaldson Creek near Wibel	Lat 60°45'40", long 149°27'20", on left bank at mile 54.5 on Seward-Anchorage Highway, and 1.5 miles north of Wibel.	4.07	1963-71	8- -71	10.43	(+)
15271900	Cub Creek near Hope	Lat 60°52'12", long 149°26'02", on right bank on Hope Highway, 0.1 mile above Sixmile Creek, and 7.7 miles southeast of Hope.	1.80	1965-71	8- -71	11.82	37
15272500	Turnagain Arm Tributary near Girdwood	Lat 60°55'27", long 149°07'40", SE¼ sec.29, T.10 N., R.2 E., on left bank on Alaska Railroad, and 1.9 miles southeast of Girdwood.	0.44	1966-67	9- -66	12.01	n19
15272530	California Creek near Girdwood	Lat 60°57'53", long 149°08'02", at culverts on Alyeska Highway, 0.2 mile west of Girdwood Post Office, and 2.0 miles northeast of Seward-Anchorage Highway.	6.96	1967-71	7- 2-68 8- 8-71	- 17.30	n72 350
15272800	Rainbow Creek near Anchorage	Lat 61°00'03", long 149°38'57", in NW¼ sec.33, T.11 N., R.2 W., on right bank on Seward-Anchorage Highway, and 19.4 miles southeast of Anchorage.	4.18	1965-67	9- -66 9- -67	11.88 12.13	n80 n130

n Not previously published.
++ Revised.
(+) Not determined.
Operated as a continuous-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Alaska west of longitude 141°					
15274300	North Fork Campbell Creek near Anchorage	Lat 61°10'14", long 149°45'40", in SW¼ sec.35, T.13 N., R.3 W., at old Campbell Airstrip road crossing, 2.5 miles upstream from South Fork Campbell Creek, and 5.5 miles southeast of Anchorage Post Office.	13.4	1967-71	8- 9-71	12.18	107
15274800	South Branch of South Fork Chester Creek near Anchorage	Lat 61°12'37", long 149°43'57", on line between sec. 13 and 24, T.13 N., R.3 W., at Muldoon road crossing, and 5.4 miles east of Anchorage.	10.8	1967-71	9- -69 8- 9-71	10.35 11.29	20 44
15277200	Meadow Creek at Eagle River	Lat 61°19'14", long 149°32'11", in NW¼ sec.7, T.14 N., R.1 W., on left bank of Eagle Loop road, and 1 mile east of Eagle River.	7.43	1965-71	9- -65 9- -66 7- -67 5- -68 7- -69 8- 9-71	9.08 c c 9.60 c 12.66	*22 *30 *30 *20 *20 184
15281500	Camp Creek near Sheep Mountain Lodge	Lat 61°50'20", long 147°24'31", on left bank on Glenn Highway, and 3.5 miles northeast of Sheep Mountain Lodge.	++1.09	1968-71	1968 1969 1970 8-10-71	++10.28 10.19 c 10.54	++26 ++19 c *30
15282200	Hicks Creek near Sutton	Lat 61°47'40", long 147°56'00", on left bank at mile 96.4 Glenn Highway, 0.2 mile upstream from Matanuska River, and 31.9 miles northeast of Sutton.	47.7	1964	6- -64	13.30	*1,200
15282300	Pinochle Creek near Sutton	Lat 61°47'37", long 147°55'46", on left bank at mile 96.7 Glenn Highway, and 35.8 miles east of Sutton.	7.99	1965-69, 1971	5-27-66 5- 8-67 8- -71	7.98 8.50 8.90	n5.8 n8.7 20
15282400	Puritan Creek near Sutton	Lat 61°48'42", long 148°08'01", on left bank in NW¼ sec.23, T.20 N., R.7 E., at mile 89.3 Glenn Highway, and 25.2 miles northeast of Sutton.	8.51	1963-71	8-10-71	10.71	41
15283500	Eska Creek near Sutton	Lat 61°43'44", long 148°54'31", in NE¼ sec.21, T.19 N., R.3 E., on right bank at culverts on Eska-Jonesville road, and 1.5 miles northeast of Sutton.	13.4	1966-67, 1971	1967 8-10-71	n10.76 a26.82	c 1,680
15289800	Fishhook Creek near Palmer	Lat 61°45'05", long 149°13'40", on left bank, on Fishhook road, and 12 miles north of Palmer.	8.52	1963-65	8-23-63 6- -64 6- -65	12.97 12.32 11.42	n960 n500 n380
15291100	Raft Creek near Denali	Lat 63°03'04", long 147°16'22", in SE¼ sec.36, T.21 S., R.2 E., on right bank at mile 69.2 Denali Highway, and 10.7 miles southeast of Denali.	4.33	1963-71	8- -71	11.69	138
15292800	Montana Creek near Montana	Lat 62°06'32", long 150°03'12", in SW¼ sec.5, T.23 N., R.4 W., on right bank on route 35 (Willow-Summit road), and 2.1 miles north of Montana.	164	1963-71	8-10-71	12.96	6,970
15292900	Goose Creek near Montana	Lat 62°03'42", long 150°03'20", in NW¼ sec.29, T.23 N., R.4 W., on route 35 (Willow-Summit road) and 1.5 miles south of Montana.	14.5	1963-71	9- -65 8- -66 5- -68 8-10-71	c c ++11.86 19.69	n*350 ++*230 ++500 f3,270
15293000	Caswell Creek near Caswell	Lat 61°56'55", long 150°03'14", in SW¼ sec.32, T.22 N., R.4 W., on route 35 (Willow-Summit road) and 2.3 miles south of Caswell.	19.6	1963-71	7- -63 6- -64 1969 8-10-71	10.96 11.37 c 11.74	++85 ++107 ++*42 120
15297300	Kalsin Bay Tributary near Kodiak	Lat 57°35'25", long 152°25'55", on right bank on Cape Chiniak road, and 13.5 miles south of Kodiak.	2.35	1963-69	8-30-63 12- 9-63 3-28-64 6- 5-65 8-21-66 10-12-66 8-13-68 9-14-69	13.16 12.98 /15.00 12.63 c 11.95 12.40 13.20	n245 n225 - n190 n*140 n130 n190 n250

a At new site.
c Unknown.
f Flow diverted from Sheep Creek.
n Not previously published.
* Estimated.
++ Revised.
/ Caused by tidal wave.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Alaska west of longitude 141°					
15297400	Black Canyon Creek near Kodiak	Lat 57°37'50", long 152°26'05", on right bank on Cape Chiniak road, and 11 miles south of Kodiak.	2.20	1963-69	8-21-66 8- 7-67	n10.88 ++10.91	(+) (+)
15297500	Red Cloud Creek Tributary near Kodiak	Lat 57°49'00", long 152°37'20", on Anton Larson Bay road, 0.1 mile upstream from Red Cloud Creek, and 8.4 miles northwest of Kodiak.	1.51	1963-71	8-29-71	12.33	590
15297900	Eskimo Creek at King Salmon	Lat 58°41'08", long 156°40'08", in SW¼ sec.23, T.17 S., R.45 W., on right bank at King Salmon, and 0.3 mile upstream from Naknek River.	16.1	1965-71	6- -71	10.70	168
15300000	Newhalen River near Iliamna	Lat 59°51'34", long 154°52'24", in NW¼ sec.1, T.4 S., R.33 W., on left bank, 12 miles downstream from Lake Clark (110 sq mi), and 8 miles north of Iliamna.	3,478	#1951-67, 1968-71	9-15-69 8-16-71	6.24 10.68	++21,300 44,200
15300100	Bear Creek near Iliamna (Formerly published as Newhalen River Tributary near Iliamna)	Lat 59°49'28", long 154°52'56", on right bank on Iliamna-Nondalton road, 0.3 mile upstream from mouth, and 5 miles north of post office at Iliamna.	++2.59	1965-68	5- -65 1968	10.90 10.79	n*58.0 *56.0
15302900	Moody Creek at Aleknagik	Lat 59°16'34", long 158°35'42", in SE¼ sec.30, T.10 S., R.55 W., on left bank, 12 ft upstream from culvert entrance, and 500 ft upstream from Wood River at the Aleknagik Mission.	1.28	1969-71	6- 7-71	19.60	55
15303010	Silver Salmon Creek near Aleknagik	Lat 59°14'34", long 158°40'21", in NW¼ sec.14, T.11 S., R.56 W., on right bank, 4.5 miles upstream from Wood River, and 3 miles southeast of Aleknagik.	++4.46	1965-71	6- -71	10.30	170
15305900	Dennison Fork near Tetlin Junction	Lat 63°25'24", long 142°29'00", in SW¼ sec.14, T.19 N., R.15 E., on right bank, 10 ft upstream from culvert at mile 10.7 on the Taylor Highway, and 8.3 miles northeast of Tetlin Junction.	2.93	1964-71	5- -71	11.39	*20
15305920	West Fork Tributary near Tetlin Junction	Lat 63°40'03", long 142°16'00", in SW¼ sec.23, T.22 N., R.16 E., on left bank 7 ft upstream from culvert at mile 32 on Taylor Highway, and 26.5 miles northeast of Tetlin Junction.	1.02	1967-71	6- -67 6- -68 6- -69 7- -70 6- -71	10.31 11.54 11.10 10.88 9.89	n*15 n*35 n*25 n*20 *3.0
15305950	Taylor Creek near Chitina	Lat 63°54'32", long 142°13'52", NW¼ sec.35, T.25 N., R.16 E., on right bank 29 ft upstream from bridge at mile 50.3 on Taylor Highway, and 14.5 miles southwest of Chicken.	38.4	1967-71	6-27-68 6- -71	++12.67 10.56	++175 60
15365000	Discovery Fork American Creek near Eagle	Lat 64°39'40", long 141°18'00", in NW¼ sec.15, T.3 S., R.32 E., on left bank 24 ft upstream from bridge at mile 149.1 on Taylor Highway, and 9.3 miles south of Eagle.	5.53	1963-71	1967 1968 6- -71	c c 11.56	*2.3 *6.0 15
15367500	Bluff Creek near Eagle	Lat 64°45'08", long 141°13'41", in SW¼ sec.12, T.2 S., R.32 E., on right bank 20 ft upstream from culvert at mile 157.4 on Taylor Highway, and 2.5 miles south of Eagle.	3.38	1963-70	9- -63 1964 6- -70 8- -71	10.05 11.35 11.68 9.32	n4.0 n33 41 3.5
15393900	North Fork Twelvemile Creek near Miller House	Lat 65°24'03", long 145°44'18", on right bank at mile 93.5 Steese Highway, and 17.5 miles southwest of Miller House.	++23.2	1964-69	7- -64 1965 1966 8-14-67 1968 8- -69	22.90 12.89 11.16 14.40 c 8.99	c c 110 1,710 c c
15438500	Bedrock Creek near Central	Lat 65°33'45", long 145°05'31", in SW¼ sec.32, T.9 N., R.13 E., on left bank, 15 ft upstream from culvert at mile 119 Steese Highway, 0.3 mile upstream from mouth on Crooked Creek, 4.4 miles northeast of Miller House, and 8 miles west of Central.	9.94	1964-71	5- -71	11.63	106

c Unknown.
n Not previously published.
* Estimated.
++ Revised.
(+) Not determined.
\# Operated as a continuous-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Alaska west of longitude 141°					
15442500	Quartz Creek near Central	Lat 65°37'09", long 144°28'55", in SW¼ sec.7, T.9 N., R.16 E., on left bank, 20 ft upstream from bridge at mile 138.5 on Steese Highway, 1 mile upstream from Crooked Creek, 10 miles east of Central, and 19 miles southwest of Circle.	17.2	1967-71	6- -71	19.90	250
15469900	Silver Creek near Northway Junction	Lat 62°59'01", long 141°40'07", in NW¼ sec.20, T.14 N., R.20 E., on left bank, 20 ft upstream from culvert at mile 1,258.8 on the Alaska Highway, and 4 miles southeast of Northway Junction.	11.7	1963-71	6- -71	9.86	21
15471000	Bitters Creek near Northway Junction	Lat 63°09'38", long 142°05'20", in SE¼ sec.13, T.16 N., R.17 E., on left bank 52 ft upstream from culvert at mile 1,280 on the Alaska Highway, 1 mile upstream from Tanana River, and 13.5 miles northwest of Northway Junction	15.4	1964-71	6- -71	11.29	81
15471500	Tanana River Tributary near Tetlin Junction	Lat 63°16'45", long 142°30'27", in SE¼ sec.3, T.17 N., R.15 E., on left bank 6 ft upstream from culvert at mile 1,297.8 on the Alaska Highway, and 3.7 miles southeast of Tetlin Junction.	2.43	1965-71	6- -71	12.39	(+)
15473600	Log Cabin Creek near Log Cabin Inn	Lat 63°01'48", long 143°20'36", on right bank 20 ft upstream from bridge at mile 97.4 on the old section of the Slana-Tok Highway, and 24.9 miles southwest of Tok.	10.7	1966-71	6- -71	9.56	27
15473950	Clearwater Creek near Tok	Lat 63°09'41", long 143°11'31", in SW¼ sec.17, T.16 N., R.12 E., on right bank 30 ft upstream from culvert at mile 109.5 Glenn Highway, and 12.5 miles southwest of Tok.	37.1	1963-71	7- -64	13.85	++669
15476050	Tanana River Tributary near Tanacross	Lat 63°24'44", long 143°48'38", in SW¼ sec.24, T.19 N., R.8 E., on right upstream wingwall, 8 ft upstream from culvert at mile 1,341 on Alaska Highway, 0.3 mile above Tanana River, and 13 miles west of Tanacross.	3.32	1964-71	7- 7-70 5- -71	12.69 10.00	n150 *5.0
15476200	Tanana River Tributary near Dot Lake	Lat 63°41'40", long 144°17'40", in NW¼ sec.17, T.22 N., R.6 E., on left bank 20 ft upstream from culvert at mile 1,369 on Alaska Highway, and 7.4 miles west of Dot Lake.	11.0	1964-71	7- -71	11.49	82
15476300	Berry Creek near Dot Lake	Lat 63°41'25", long 144°21'50", in NW¼ sec.13, T.22 N., R.5 E., on left bank 50 ft upstream from bridge at mile 1,371.4 on Alaska Highway, and 9.4 miles west of Dot Lake.	65.1	1963-71	6- -71	11.26	a288
15476400	Dry Creek near Dot Lake	Lat 63°41'32", long 144°34'16", in NW¼ sec.24, T.14 S., R.16 E., on piling near left bank, 64 ft above bridge at mile 1,378.1 on Alaska Highway and 15.7 miles west of Dot Lake.	57.6	1963-65 #1966-69 1970-71	7- -70 6- -71	14.78 13.67	++1,340 840
15478010	Rock Creek near Paxson	Lat 63°04'16", long 146°06'17", on right bank at mile 24.8 Denali Highway, and 18 miles west of Paxson.	50.3	1963-71	7- -67 6- -71	12.07 12.16	++1,130 1,440
15478050	McCallum Creek near Paxson	Lat 63°13'27", long 145°38'56", in SW¼ sec.33, T.19 S., R.11 E., on right bank upstream wingwall, 8 ft upstream from bridge, at mile 202.4 on Richardson Highway, 0.5 mile upstream from Phelan Creek, and 15.4 miles northwest of Paxson.	15.5	1967-71	8-10-71	13.17	988
15478090	Lower Suzie Q Creek near Rapids	Lat 63°29'23", long 145°51'22", in NW¼ sec.32, T.16 S., R.10 E., on left bank 32 ft upstream from culvert at mile 224.4 on Richardson Highway, and 2.8 miles south of Rapids.	1.28	1964-71	8-10-71	11.79	(+)

a At new site.
n Not previously published.
* Estimated.
++ Revised.
(+) Not determined.
\# Operated as a continuous-record station.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Alaska west of longitude 141°					
15478500	Ruby Creek near Donnelly	Lat 63°37'52", long 145°53'03", in NE¼ sec.7, T.15 S., R.10 E., on left bank 51 ft upstream from culvert at mile 234.8 on Richardson Highway, and 2.3 miles south of Donnelly.	5.32	1963-71	1970 6- -71	n10.64 10.68	n18 20
15480000	Banner Creek at Richardson	Lat 64°17'24", long 146°20'56", in SW¼ sec.22, T.7 S., R.7 E., on right bank 55 ft upstream from bridge at mile 295.4 on Richardson Highway, 0.1 mile upstream from Tanana River, and 0.4 mile northwest of Richardson.	20.2	1964-71	8-10-71	11.51	222
15490000	Monument Creek at Chena Hot Springs	Lat 65°03'17", long 146°03'05", in SE¼ sec.26, T.3 N., R.8 E., 0.4 mile upstream from unnamed tributary, 1.3 miles upstream from North Fork Chena River, and 800 ft from lodge at Chena Hot Springs.	26.7	1970-71	1970 6- -71	c 27.00	*54 1,270
15511500	Steele Creek near Fairbanks	Lat 64°53'36", long 147°29'12", on line between sec.23 and 26, T.1 N., R.1 E., at mile 4.5 Chena Hot Springs Highway, and 7.5 miles northeast of Fairbanks.	10.7	1967, 1970-71	8-12-67 6- -70 6- -71	11.23 n1.08 1.48	340 n11 n16
15515900	Lily Creek near Cantwell	Lat 63°19'54", long 148°16'16", in NW¼ sec.26, T.18 S., R.4 W., 300 ft upstream from culvert at mile 111.9 Denali Highway, and 20 miles southeast of Cantwell.	5.63	1966-71	6- -66 6- -71	12.08 a21.61	n191 (+)
15516100	Nenana River Tributary near Cantwell	Lat 63°27'50", long 148°48'25", on right bank on Denali Highway, and 6.7 miles northeast of Cantwell.	1.62	1966-68	6- -66 7- -67	c c	n*20 n*20
15516200	Slime Creek near Cantwell	Lat 63°30'34", long 148°48'39", in SE¼ sec.24, T.16 S., R.7 W., on left bank of Denali Highway, and 9.1 miles northeast of Cantwell.	6.90	1966-71	6- -66 6- -68 7- 1-69 7-13-71	12.26 10.44 10.50 11.85	n355 ++115 ++125 250
15518100	Little Panguingue Creek near Lignite	Lat 63°56'05", long 149°06'00", in NW¼ sec.27, T.11 S., R.8 W., on right bank 10 ft upstream from culvert on Anchorage-Fairbanks Highway, 1.5 miles upstream from Nenana River, and 3 miles northwest of Lignite.	3.44	1965-71	9-14-70 6- -71	12.25 11.88	++a2.0 30
15518200	Rock Creek near Ferry	Lat 64°01'56", long 149°08'40", in SW¼ sec.21, T.10 S., R.8 W., at mid-channel 42 ft upstream from culverts on Anchorage-Fairbanks Highway, 0.3 mile upstream from Nenana River, and 1.4 miles northwest of Ferry.	8.17	1965-71	6-13-65 1970 6- -71	11.34 10.48 11.12	n671 n340 580
15518250	Birch Creek near Rex	Lat 64°10'35", long 149°17'26", in SW¼ sec.35, T.8 S., R.9 W., on left bank 20 ft upstream from culvert on Anchorage-Fairbanks Highway, and 4.2 miles south of Rex.	4.10	1965-71	8-10-71	9.82	70
15519000	Bridge Creek near Livengood	Lat 65°27'52", long 148°15'13", on left bank, 10 ft upstream from culvert at mile 56 on Elliott Highway, 9.5 miles southeast of Livengood.	12.6	1963-71	8- -63 1968 8-10-71	13.40 n13.00 13.88	++185 n152 220
15519200	Brooks Creek Tributary near Livengood	Lat 65°23'02", long 148°56'12", on right bank 20 ft upstream from culvert at mile 84 on Elliott Highway, and 15 miles southwest of Livengood.	7.81	1964-71	1968 8- 8-71	n11.01 9.35	n98 46
15520000	Idaho Creek near Miller House	Lat 65°21'13", long 146°09'33", in NW¼ sec.17, T.6 N., R.8 E., 100 ft downstream from culverts at mile 79 on Steese Highway, and 30 miles southwest of Miller House.	5.31	1963-71	1968 1969 6- -71	c c a14.83	*130 *210 125

a At new site.
c Unknown.
n Not previously published
* Estimated.
++ Revised.
(+) Not determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1971--Continued.

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Alaska west of longitude 141°					
15530000	Faith Creek near Chena Hot Springs	Lat 65°17'32", long 146°22'48", in NE¼ sec.6, T.5 N., R.7 E., on right bank 88 ft upstream from bridge at mile 69 on Steese Highway, 0.2 mile upstream from mouth on Chatanika River, 19 miles northwest of Chena Hot Springs, and 34.5 miles northeast of Chatanika.	61.1	1963-71	8-10-71	a12.80	1,200
15541600	Globe Creek near Livengood	Lat 65°17'03", long 148°08'06", on right bank, 17 ft upstream from culvert at mile 38 on Elliott Highway, 9 miles upstream from mouth on Tatalina River, and 19 miles southeast of Livengood.	26.3	1964-71	7-30-64 8- -67 6- -68 8-10-71	14.39 z16.00 c 16.79	n506 b680 b74 300
15541650	Globe Creek Tributary near Livengood	Lat 65°16'31", long 148°06'58", on right bank, 20 ft upstream from right culvert at mile 36.9 on Elliott Highway, 1 mile above mouth on Globe Creek, and 20 miles southeast of Livengood.	9.01	1963-71	6- -66 6- -68 8- -69 8-10-71	c c c 9.71	n*75 nb42 n*70 74
15541800	Washington Creek near Fox	Lat 65°09'03", long 147°51'22", on right bank 100 ft upstream from bridge at mile 18.2 on Elliott Highway, and 15 miles northwest of Fox.	46.7	1963-71	7-13-71	9.27	240
15564500	New York Creek near Ruby	Lat 64°34'45", long 155°26'00", on left bank at mile 14 Ruby-Poorman road, and 12 miles south of Ruby.	6.99	1965-67	9- -65 5- -67	10.84 10.26	n72 nb40
15585000	Goldengate Creek near Nome	Lat 64°26'03", long 165°02'46", on left bank on Nome-Council road, 0.3 mile upstream from Norton Sound, and 11 miles southeast of Nome.	1.55	1965	9- 8-65	11.70	++63
15625000	Arctic Creek near Nome	Lat 64°38'15", long 165°42'46", in NE¼ sec.8, T.10 S., R.35 W., on right bank 20 ft upstream from culvert on Nome-Teller road, 2 miles above Bluff Creek, and 13 miles northwest of Nome.	1.76	1969-71	6- -71	9.95	28
15633000	Washington Creek near Nome	Lat 64°42'52", long 165°49'13", in NW¼ sec.14, T.9 S., R.35 W., on right bank on Nome-Teller road, and 19 miles northwest of Nome.	6.34	1964-71	1971	10.10	63
15668100	Star Creek near Nome	Lat 64°55'40", long 164°57'39", on right bank at mile 40.5 Nome-Taylor road, 0.9 mile above Kruzgamepa River, and 32 miles northeast of Nome.	3.91	1964-71	6-13-71	8.84	b21
15668200	Crater Creek near Nome	Lat 64°55'59", long 164°52'06", on right bank at mile 43 Nome-Taylor road, 1.3 miles above Kruzgamepa River, and 34 miles northeast of Nome.	22.1	1964-71	9- 8-65 6-16-71	17.60 12.22	nh2,500 600

a At new site.
c Unknown.
b At least this high.
h At least this high, road washed out.
n Not previously published.
z Datum change.
* Estimated.
++ Revised.

Discharge Measurements at Miscellaneous Sites

Measurements of streamflow at points other than gaging stations are given in the following table. Those that are measurements of base flow are identified by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		SOUTHEASTERN ALASKA				
Deer Creek	Federick Sound	Lat 56°46'12", long 132°48'00", on Mitkof Island, in Tongass National Forest, 1,000 ft upstream from mouth at Frederick Sound and 6 miles southeast of Petersburg.	7.41	-	10-30-70	54.0
Duck Creek	Mendenhall River	Lat 58°22'10", long 134°34'15", at highway bridge, 1 mile above mouth and 2.8 miles southeast of Auke Bay.	0.35	1951, 1963-67	3-26-71 to 4-2-71	No flow during the period
Cowee Creek	Berners Bay	Lat 58°39'06", long 134°54'54", in Tongass National Forest, 500 ft downstream from highway bridge, 1.5 miles upstream from mouth, and 20 miles northwest of Auke Bay.	29.5	1949, 1968	9-23-71	291
Hydaburg River	Sukkwan Strait	Lat 55°12'20", 132°49'28", at Hydaburg on Prince of Wales Island, 150 ft upstream from bridge and 800 ft upstream from mouth at Sukkwan Strait.	10.6	-	1-19-71	54.2

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
Stillwater Creek	Bering River	Lat 60°23'39", long 144°03'58", in SE¼ sec.18, T.17 S., R.8 E., at the outlet of Kushtaka Lake, and 60 miles southeast of Cordova.	--	--	3-21-71	*93.8
Trout Creek	Stillwater Creek	Lat 60°24'04", long 144°03'02", in NW¼ sec.17, T.18 S., R.8 E., 0.4 mile above confluence with Stillwater Creek, and 60 miles southeast of Cordova.	2.50	1970	3-21-71	*3.23
Clear Creek	.....do.....	Lat 60°24'17", long 144°01'38", in NE¼ sec.17, T.17 S., R.8 E., 0.5 mile above confluence with Stillwater Creek, and 61 miles southeast of Cordova.	6.65	1970	8-28-70	27.7
Shepherd Creek below Lake Charlotte	Bering River	Lat 60°24'49", long 144°12'14", in SE¼ sec.8, T.17 S., R.7 E., at Lake Charlotte outlet, and 54 miles southeast of Cordova.	--	1970	3-20-71	*27.4
Carbon Creek	.....do.....	Lat 60°22'25", long 144°12'54", in NE¼ sec.29, T.29 S., R.7 E., 500 ft above confluence with Shepherd Creek, and 54 miles southeast of Cordova.	2.65	1970	3-20-71	*2.82
Shepherd Creek	.....do.....	Lat 60°21'44", long 144°13'00", in NE¼ sec.32, T.17 S., R.7 E., 0.7 mile below confluence with Carbon Creek, 5.5 miles above mouth at Bering Lake, and 54 miles southeast of Cordova.	--	1970	9- 9-70	261
Slana River	Copper River	Lat 62°51'30", long 143°41'35", in NE¼NE¼ sec.3, T.17 N., R.9 E., at bridge on Glenn Highway, 6 miles southeast of Mentasta Lake.	310	--	8-11-71	/a5,440
b Indian Creek	.....do.....	Lat 62°40'00", long 144°25'30", at mile 43.9 on Slana-Tok Highway, and 8.5 miles northeast of Sinona Lodge.	113	--	10-14-63 6-12-64 7- 7-64	55.0 195 127
Chistochina River	.....do.....	Lat 62°36'10", long 144°38'15", in S½ sec.34, T.10 N., R.4 E., at bridge on Glenn Highway, 1 mile northeast of Sinona Lodge.	610	--	8- -71	/a40,000
Gulkana River	.....do.....	Lat 62°16'08", long 145°23'52", in SE¼ sec.27, T.6 N., R.1 W., at Richardson Highway bridge at Gulkana, 3.5 miles upstream from mouth, and 1.7 miles southwest of junction of Glenn-Richardson Highway.	1,966	1965,70	10- 3-70 12- 5-70 3-16-71 6- 4-71 7-10-71	1,180 239 130 3,220 2,040
+Klutina River	.....do.....	Lat 61°57'10", long 145°18'18", in SW¼ sec.18, T.2 N., R.1 E., at Richardson Highway bridge, 0.8 mile upstream from mouth, 0.7 mile south of Copper Center, and 24 miles downstream from Klutina Lake.	880	+1951-66	8- -71	/6,800
Little Tonsina River	Tonsina River	Lat 61°36'21", long 145°12'30", 1.1 miles upstream from mouth, and 5 miles southeast of Tonsina.	--	1970	6- 3-71 7- 9-71 8-25-71	97.0 307 91.6
b Fivemile Creek	Copper River	Lat 61°34'55", long 144°26'10", 40 ft upstream from culvert on Edgerton Cutoff, .5 mile upstream from Copper River, and 4.6 miles north of Chitina.	13.2	--	8-28-63 6-14-64 7-20-65 9-16-65 7- 1-66 8-18-66 10- 3-66 6-15-67 7-24-67 5-21-68 7- 6-68	12.0 114 23.7 11.7 27.9 10.7 12.0 39.3 11.9 52.6 79.9
b Ptarmigan Creek Tributary	Ptarmigan Creek	Lat 61°08'13", long 145°44'30", in NE¼ sec.34, T.8 S., R.3 W., on right bank, at mile 24.4 Richardson Highway, and 26.2 miles northeast of Valdez.	0.44	--	8- 2-65 8-17-66 6-15-67 7-23-67 7- 6-68 8-14-69	7.65 4.69 21.4 7.23 22.6 1.92

* Base flow.
/ Measurements of peak flow.
\+ Published as a continuous-record station.
a Estimated
b Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
b Control Creek	Olsen Bay	Lat 60°45'00", long 146°14'00", 0.5 mile upstream from Olsen Bay, and 21.6 miles northwest of Cordova.	4.22	1964-70	1-30-70 6- 4-71 9-11-71	*6.55 53.2 9.79
Lowe River	Port Valdez	Lat 61°05'49", long 145°51'32", SW¼ sec.12, T.9 S., R.4 W., on pier on Richardson Highway bridge, 22 miles east from new town of Valdez.	201	1950-54	8-25-71	2,140
Lowe River	Port Valdez	Lat 61°05'07", long 146°12'50", at bridge on Dayville Road, 5.6 miles southeast of Valdez, and 1 mile above mouth at Port Valdez.	345	--	7-10-71	/12,000
b Chalmers River	Port Chalmers	Lat 60°13'10", long 147°13'30", in SE¼ sec.32, T.1 N., R.13 E., on Montague Island, 1.2 miles upstream from Port Chalmers, and 58 miles southwest of Cordova.	6.32	1967-70	3-24-71 6- 4-71 9-10-71	*1.84 185 122
Nuka River	Beauty Bay	Lat 59°39'05", long 150°40'09", 8.5 miles upstream from Beauty Bay, 7 miles southeast of Bradley Lake, and 30 miles east of Homer.	14.9	1958-61	8-26-70 10- 5-70 9-28-71	162 52.1 68.6
b Fritz Creek	Kachemak Bay	Lat 59°42'30", long 151°20'35", in SW¼ sec.28, T.5 S., R.12 W., on right bank of east road, and 9 miles northeast of Homer.	10.4	1962, 68-70	7-13-63 10- 2-63 6- 5-64 6-19-64 7-22-65 6- 1-66 7-12-66 8-16-66 9-19-66 3-27-67 5-23-67 6-13-67 7-26-67 9- 3-67 11-12-70 3-22-71 7-16-71 8-28-71	12.3 9.56 31.5 17.5 9.42 26.3 24.1 6.97 45.5 *3.34 12.0 14.1 *3.99 7.56 19.0 *3.16 12.8 *7.85
b Diamond Creek	Cook Inlet	Lat 59°40'10", long 151°40'00", in SE¼ sec.9, T.6 S., R.14 W., on right bank of Sterling Highway, and 4.6 miles northwest of Homer.	5.35	1962, 68-70	3- 8-63 7-13-63 10- 2-63 6- 5-64 6-19-64 4-24-65 7-21-65 9-27-65 6- 1-66 7-13-66 8-17-66 9-20-66 5-23-67 6-13-67 7-27-67 9- 3-67 11-12-70 3-23-71 5- 4-71 6-25-71 7-16-71 8-28-71	36.2 3.82 8.03 18.4 6.44 13.1 4.02 20.2 14.8 8.60 4.02 24.2 7.55 12.3 *2.07 5.51 13.8 *1.15 2.94 6.50 7.35 *2.61
Bridge Creek	Anchor River	Lat 59°40'46", long 151°32'45", in SE¼ sec.6, T.6 S., R.13 W., 3.2 miles above confluence with Twitter Creek, and 2.5 miles north of Homer.	--	1970	8-28-71	*1.78
b Cook Inlet Tributary	Cook Inlet	Lat 59°58'45", long 151°43'20", on left upstream wingwall of culvert on Sterling Highway, 5.4 miles southwest of Ninilchik.	1.69	1968-70	6- 2-66 7-14-66 9-20-66 3-29-67 6-14-67 7-18-67 9- 3-67 8-27-71	13.6 4.83 11.5 *0.86 3.86 *1.16 4.87 *2.67

* Base flow.
/ Measurements of peak flow.
b Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
b Falls Creek	Trail River	Lat 60°25'50", long 149°22'10", at mile 25 on Seward-Anchorage Highway, and 2 miles north of Lawing.	11.8	--	6- 1-63	63.7
					7-12-63	111.
					9-30-63	37.6
					6- 3-64	115
					7-23-65	86.3
					6- 9-66	108
					7-15-66	85.6
					8-20-66	66.0
					9-23-66	67.8
					6-15-67	125
					9- 8-67	180
					10-19-67	14.1
					6-21-68	99.2
					8- 3-68	52.0
					7-29-69	57.4
					9-10-69	49.5
					10- 8-69	192
					6-22-70	72.4
b Quartz Creek	Kenai Lake	Lat 60°35'45", long 149°32'35", on right bank at mile 42 on Seward-Anchorage Highway, and 0.4 mile south of Gilpatricks.	9.41	--	6- 1-63	68.9
					7-11-63	86.4
					9-30-63	19.0
					6- 2-64	60.1
					6- 8-65	46.6
					7-24-65	54.2
					6- 4-66	65.4
					7-19-66	73.4
					6-16-67	73.1
					9- 4-67	33.9
					6-21-68	72.1
					10-25-68	9.47
					5-12-69	6.06
					5-27-69	91.4
					8- 1-69	27.5
					9-11-69	20.2
					10- 8-69	163
					6-22-70	91.9
Soldotna Creek	Kenai River	Lat 60°29'20", long 151°02'40", in T.5 N., R.10 W., 0.4 mile east of Soldotna, and 0.5 mile upstream from mouth at Kenai River.	40.4	1968-70	8-28-71	*13.6
Slikok Creek	.....do.....	Lat 60°28'25", long 151°08'17", in sec.2, T.5 N., R.11 W., 0.8 mile above mouth at Kenai River, and 3 miles southwest of Soldotna.	--	1968-69	8-28-71	*9.29
Bishop Creek	Cook Inlet	Lat 60°46'35", long 151°05'45", in NE¼ sec.19, T.8 N., R.10 W., at North Kenai Road, and 16 miles northwest of Kenai.	33.9	1968-70	3-25-71	*17.0
b Fresno Creek	Canyon Creek	Lat 60°40'15", long 149°28'35", on right bank at mile 48 on Seward-Anchorage Highway, and 0.6 mile south of Shield.	6.03	--	7-11-63	43.1
					6- 2-64	58.4
					7-24-65	34.2
					9-29-65	23.8
					6- 3-66	40.5
					7-19-66	35.7
					6-16-67	55.2
					9- 4-67	25.5
					6-21-68	49.6
					8- 4-68	17.0
					10-25-68	4.72
					5-12-69	7.09
					5-27-69	64.6
					8- 1-69	16.0
					9-11-69	10.5
					10- 8-69	58.4
					6-22-70	39.4
					11-13-70	8.91

* Base flow.
b Also a crest-stage partial-record station.

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
Rainbow Creek	Turnagain Arm	Lat 61°00'03", long 149°38'57", on right bank in NW¼ sec.33, T.11 N., R.2 W., on Seward-Anchorage Highway, 19.4 miles southeast of Anchorage.	4.18	--	8-15-65 8-24-65 6- 9-66 7-19-66	26.2 11.9 29.9 10.1
Rabbit Creek	Cook Inlet	Lat 61°05'51", long 149°44'10", in SW¼ sec.25, T.12 N., R.3 W., near Hillside Road crossing, 9.5 miles south of Anchorage.	--	--	9-10-71	23.6
.....do.....	.....do.....	Lat 61°05'42", long 149°46'59", in SE¼ sec.27, at Canyon Road crossing, 9.5 miles south of Anchorage.	--	--	9-10-71	23.0
.....do.....	.....do.....	Lat 61°05'05", long 149°49'25", in SW¼ sec.33, T.12 N., R.3 W., at Seward Highway, 9.5 miles south of Anchorage	--	1968	9-10-71	24.8
Little Rabbit Creek	Rabbit Creek	Lat 61°04'57", long 149°44'50", in SE¼ sec.35, T.12 N., R.3 W., at bridge crossing 10.0 miles south of Anchorage.	--	--	9-10-71	8.07
.....do.....	.....do.....	Lat 61°04'40", long 149°48'35", in NE¼ sec.4, T.11 N., R.3 W., at Seward Highway, 10.0 miles south of Anchorage.	--	1968	9-10-71	8.58
Russian Jack Springs	Chester Creek	Lat 61°12'25", long 149°46'55", in NW¼ sec.22, T.13 N., R.3 W., 3.5 miles east of Anchorage.	--	1948-49 1952-63 1965 1967-70	12- 1-70 5-17-71	1.44 1.49
Peters Creek	Knik Arm	Lat 61°24'18", long 149°27'25", in SE¼ sec.9, T.15 N., R.1 W., at bridge on Glenn Highway, 1.3 miles northeast of Chugiak, and 2.3 miles above mouth at Knik Arm.	83.3	--	8- 9-71	/1,990
b Hicks Creek	Matanuska River	Lat 61°47'40", long 147°56'00", on left bank 60 ft upstream from bridge on Glenn Highway, 0.3 mile upstream from Matanuska River, 16 miles east of Chickaloon, at mile 96.4.	47.7	--	7- 3-63 10-17-63 6-15-64 6-26-64	128 26.9 494 186
b Pinochle Creek	.....do.....	Lat 61°47'37", long 147°55'46", on left bank 6 ft upstream from culvert on Glenn Highway, 0.4 mile upstream from Matanuska River, 35.8 miles east of Sutton, at mile 96.7.	7.99	--	5-27-66 9-29-66 5- 8-67 5-26-68	5.79 3.82 8.72 16.8
Kings River	.....do.....	Lat 61°43'58", long 148°44'52", in SW¼ sec.16, T.19 N., R.4 E., at bridge at mile post 67 on Glenn Highway, and 5 miles east of Sutton.	151	--	8-10-71	/9,800
Granite Creek	.....do.....	Lat 61°46'46", long 148°50'12", center sec.36, (projected), T.20 N., R.3 E., 5 miles above mouth at Matanuska River, and 5 miles north of Sutton.	52.5	--	8-10-71	/i58,000
Moose Creek	.....do.....	Lat 61°43'32", long 149°03'00", in NW¼ sec.23, T.19 N., R.2 E., 0.3 mile above Buffalo Mine, 5 miles west of Sutton, 5.5 miles above mouth at Matanuska River, and 9 miles northeast of Palmer	40.7	--	8-10-71	/18,000
Wasilla Creek	Knik Arm	Lat 61°38'47", long 149°11'45", in SW¼ sec.13, T.18 N., R.1 E., at culvert on Fishhook Road, and 4.1 miles northwest of Palmer.	19.3	--	8-10-71	/700
Fish Creek	.....do.....	Lat 61°32'03", long 149°49'30", in SE¼ sec.28, T.17 N., R.3 W., at outlet to Big Lake, and 13 miles west of Wasilla.	72.4	--	6-29-71	40.9
b Fishook Creek	Little Susitna River	Lat 61°45'05", long 149°13'40", on left bank on Fishook road, and 12 miles north of Palmer.	8.52	--	6- 5-63 6-18-63 7- 2-63 8- 5-63 6-11-64 9-27-65	85.4 79.2 265 109 111 152

/ Measurements of peak flow.
b Also a crest-stage partial-record station.
i Augmented by release of stored water from unnamed lake after embankment was breached.

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
b North Fork King Solomon Creek	King Solomon Creek	Lat 64°32'32", long 141°15'00", on left bank at mile 135.8 Taylor Highway, and 18 miles north of Eagle.	18.5	--	10-11-63	7.67
					7-10-64	49.4
					7-11-64	136
					7-22-65	13.7
					8-28-65	32.7
					9-22-65	15.7
					7-15-66	5.23
					8-22-66	2.22
					6-18-67	10.7
b North Fork Twelve Mile Creek	Twelve Mile Creek	Lat 65°24'00", long 145°44'20", on right bank at mile 93.5 Steese Highway, and 17.5 miles southwest of Miller House.	23.2	--	7-17-64	35.4
					7-25-65	41.1
					9- 1-65	9.65
					9-27-65	32.6
					7-30-66	3.04
					9- 1-66	2.90
					6-21-67	13.5
					7-27-67	38.7
					6-12-68	34.8
b Bartell Creek	Mentasta Creek	Lat 62°55'45", long 143°34'40", at mile 83.5 Tok-Slana Highway, 1 mile upstream from mouth, and 8 miles east of Mentasta.	12.0	--	7-20-65	10.8
					8- 1-65	14.6
					8-26-65	10.2
					9-21-65	22.8
					6- 7-66	88.0
					7-17-66	9.38
					8-24-66	6.80
					7- 5-68	25.6
+Tanana River	Yukon River	Lat 64°09'25", long 145°51'00", on line between secs. 6 and 7, T.9 S., R.10 E., at Richardson Highway crossing and 0.5 miles northwest of Big Delta.	13,500	+1948-52	6-24-71	27,700
				+1954-57	7-16-71	46,500
				1969	8-13-71	51,600
Salchaket Slough	Tanana River	Lat 64°40'00", long 147°18'06", sec.11, T.3 S., R.2 E., 8 miles southeast of North Pole.	--	--	7- 8-71	4,160
Piledriver Slough	.....do.....	Lat 64°43'15", long 147°18'47", sec.22, T.2 S., R.2 E., 3.5 miles southeast of North Pole.	--	--	7- 8-71	1,900
b Nenana River Tributary	Nenana River	Lat 63°27'50", long 148°48'25", on right bank on Denali Highway, and 6.7 miles northeast of Cantwell.	1.62	--	7-29-65	2.20
					7- 4-66	2.45
					8-25-66	2.83
					7-21-67	10.0
b New York Creek	Beaver Creek	Lat 64°34'45", long 155°26'00", on left bank at mile 14 Ruby-Poorman road, and 12 miles south of Ruby.	6.99	--	7-24-65	2.58
					8-23-65	6.61
					6- 8-66	18.9
					7-21-66	1.69
					8-26-66	3.62
					5-26-67	40.0
b Goldengate Creek	Norton Sound	Lat 64°26'03", long 165°02'46", on left bank on Nome-Council road, 0.3 mile upstream from Norton Sound, and 11 miles southeast of Nome.	1.55	--	9- 9-65	6.79
					9-24-66	0.45
Unnamed Tributary	Sagavanirktok River	Lat 68°43'25", long 148°57'34", T.9 S., R.14 E., 1 mile above mouth, and 40 miles south of Sagwon.	--	--	3-16-71	1.55
Lupine River	.....do.....	Lat 69°05'00", long 148°44'00", T.4 S., R.14 E., at mouth, and 19.7 miles south of Sagwon.	--	1969	8- 1-71	402

b Also a crest-stage partial-record station.
+ Published as a continuous-record station.

Discharge measurements made at miscellaneous sites during water year 1971--Continued.

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Alaska west of longitude 141°				
Susitna River	Cook Inlet	Lat 62°10'35", long 150°10'18", in NW¼ sec.15, T.24 N., R.5 W., near left one-quarter point on downstream side of bridge on Anchorage-Fairbanks Highway, 1.5 miles downstream from Sunshine Creek, and 3 miles west of Sunshine.	all,500	--	6- 1-65	80,200
					5-27-71	37,400
					7- 2-71	74,600
					8-10-71	/200,000
					8-11-71	171,000
b Kalsin Bay Tributary	Kalsin Bay	Lat 57°35'25", long 152°25'55", on right bank, on Cape Chiniak road, and 13.5 miles south of Kodiak.	2.35	--	10- 4-63	8.50
					6- 7-64	7.41
					3-24-65	34.2
					10- 8-65	7.35
					5-13-66	60.6
					7-10-66	0.23
					4-11-66	9.05
					5- 9-67	25.2
					5- 7-68	17.5
					7-30-68	18.6
					5-29-69	24.2
					9-16-69	18.2
b Black Canyon Creek	.....do.....	Lat 57°37'50", long 152°26'05", on right bank on Cape Chiniak road, and 11 miles south of Kodiak.	2.20	--	5-25-63	7.18
					7-16-63	1.96
					10- 4-63	13.0
					6- 6-64	37.0
					4-16-65	58.2
					7-16-65	15.4
					10- 8-65	16.5
					5-13-66	38.8
					7-10-66	11.9
					8-16-66	12.2
					4-11-67	11.5
					7-17-67	3.71
					9- 9-67	8.42
					12- 6-67	4.15
					12-11-68	4.41
					3-28-68	3.63
					5- 8-68	13.7
					6-19-68	9.55
					7-30-68	27.1
					10- 2-68	147
					5-29-69	36.6
					9-18-69	11.1
					10-15-69	37.8
					5-28-70	22.4
Devils Creek	Buskin River	Lat 57°44'54", long 152°30'57", in SE¼ sec.16, T.28 S., R.20 W., at weir, 0.7 miles from mouth, and 5 miles southwest of Kodiak.	--	1968	6-25-70	38.5
					8- 4-70	11.2
					10-13-70	14.7
Buskin River	Chiniak Bay	Lat 57°45'15", long 152°29'10", in NW¼ sec.14, T.28 S., R.20 W., at bridge on road to U.S. Navy Airport, about 2 miles from mouth, and 4 miles southwest of Kodiak.	--	1959,68	2-18-69	11.7
					3-18-71	27.1
Monashka Creek	Monashka Bay	Lat 57°50'35", long 152°27'30", in NW¼ sec.13, T.27 S., R.20 W., 0.8 mile above mouth, and 4 miles northwest of Kodiak.	--	1957,68	7-21-71	66.3
bBear Creek	Newhalen River	Lat 59°49'28", long 154°52'56", on right bank on Iliamna-Nondalton road, 0.3 mile upstream from mouth, and 5 miles north of post office at Iliamna.	2.59	--	7-27-65	7.03
					8-26-65	9.03
					6-15-66	10.8
					7-28-66	4.09
					8-31-66	18.2
					6-16-67	9.12
					8-28-67	23.1
b Village Creek	Kuskokwim River	Lat 61°51'45", long 158°08'15", on right bank in SW¼ sec.31, T.21 N., R.48 W., .5 mile upstream from mouth, and 1 mile southwest of Crooked Creek.	14.5	--	6- 3-65	28.4
					8-25-65	20.5
					6-13-65	21.8

a Estimated.
b Also a crest-stage partial-record station.
/ Measurements of peak flow.

North Fork Campbell Creek Seepage Investigations--Anchorage, Alaska

A series of discharge measurements was made on Nov. 17 and May 26 on the North Fork Campbell Creek to study channel gains and losses. The reach is 3.5 miles in length and extends from the mountain front to Campbell Field road. The measurements were made during periods of constant flow. Indicated gains or losses may be substantially in error as affected by small inaccuracies in open-channel measurements.

Date	River mile	Location	Discharge in cubic feet per second: Meas. disch.	Discharge in cubic feet per second: Gain or Loss
11-17-70	6.0	SE¼ sec.31 in canyon at mountain front	13.7	--
11-17-70	5.0	SW¼ sec.31 at tank trail crossing	11.6	-2.1
11-17-70	4.2	SE¼ sec.36	7.01	-4.59
11-17-70	3.8	NW¼ sec.36	9.44	+2.43
		Overall net gain or loss		-4.26
5-26-71	6.0	SE¼ sec.31 in canyon at mountain front	4.28	--
5-26-71	5.0	SW¼ sec.31 at tank trail crossing	4.70	+.42
5-26-71	3.8	NW¼ sec.36	4.75	+.05
5-26-71	2.5	SW¼ sec.35 at Campbell Field road	5.71	+.96
		Overall net gain or loss		+1.43

PART 2. WATER QUALITY RECORDS

15053800 LAKE CREEK AT AUKE BAY

LOCATION.--Lat 58°23'40", long 134°37'50", in NW 1/4 NE 1/4 sec.23, T.40 S., R.65 E., temperature recorder at gaging station on right bank, 45 ft upstream from bridge on Mendenhall Loop Road, 700 ft upstream from mouth at Auke Lake, and 0.8 mile northeast of Auke Bay.

DRAINAGE AREA.--2.50 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1965, 1967-68, and 1971 (partial-record station).
Water temperatures: October 1963 to September 1971.
Sediment records: Water years 1967-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 18.0°C July 10; minimum, freezing point on many days during winter months.

EXTREMES, 1963-71.--Water temperatures: Maximum, 18.0°C July 10, 1970; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
SEP. 15...	4.4	2.6	100	4.2	.9	.7	.1	14	.8	.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
SEP. 15...	.1	.2	17	14	3	30	7.4	45	8.0

15053800 LAKE CREEK NEAR AUKE BAY--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	8.0	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	8.0	8.0	5.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	8.0	8.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	8.0	7.0	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	7.0	5.0	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.0	4.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	6.5	4.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	6.0	6.0	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	6.0	6.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	6.5	6.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	6.5	6.5	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	6.5	6.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	6.5	6.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	6.5	6.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	6.5	5.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	5.5	5.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	5.5	4.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.5	4.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	4.5	4.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	4.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	4.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	0.0	0.0
30	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	0.0	0.0
31	5.5	5.0	--	--	0.0	0.0	0.0	0.0	--	--	0.0	0.0
AVG.	5.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	1.0	1.0	3.0	3.0	10.0	9.5	15.5	13.0	9.0	9.0
2	0.0	0.0	1.0	1.0	4.0	3.0	9.5	9.5	14.5	12.0	9.0	9.0
3	0.0	0.0	1.0	1.0	4.0	2.0	9.5	9.5	12.0	12.0	9.0	9.0
4	0.0	0.0	1.0	1.0	4.5	2.0	11.0	8.5	12.5	12.0	9.0	8.5
5	0.0	0.0	1.5	1.0	5.0	3.0	13.5	10.0	12.5	12.0	8.5	8.0
6	0.0	0.0	1.0	1.0	5.0	3.0	13.5	10.0	12.0	12.0	8.0	8.0
7	0.0	0.0	1.0	1.0	5.0	3.0	14.5	10.5	12.0	11.5	8.0	6.5
8	0.0	0.0	1.0	1.0	4.0	4.0	15.5	11.0	11.5	11.5	6.5	5.5
9	0.5	0.0	1.0	1.0	5.0	4.0	14.5	11.5	12.5	11.5	5.5	5.5
10	0.5	0.0	1.0	1.0	4.0	4.0	18.0	11.5	12.0	11.5	5.5	5.5
11	0.0	0.0	1.0	1.0	4.0	4.0	16.5	12.0	12.0	11.5	5.5	5.5
12	0.0	0.0	1.0	1.0	4.0	3.5	15.5	12.5	13.5	12.0	--	--
13	0.0	0.0	1.0	1.0	5.0	4.0	13.5	12.5	13.0	12.0	--	--
14	0.0	0.0	1.5	1.0	6.0	4.0	13.5	12.0	12.0	12.0	--	--
15	0.0	0.0	1.0	1.0	6.5	5.0	12.0	12.0	12.0	12.0	8.0	8.0
16	0.5	0.0	2.0	1.0	6.5	6.0	12.0	11.0	12.0	12.0	8.0	8.0
17	0.5	0.0	2.0	1.0	6.5	6.0	12.0	11.0	12.0	11.5	8.0	8.0
18	0.5	0.5	2.0	1.5	7.0	6.5	12.0	11.0	12.0	11.5	8.0	7.0
19	0.5	0.5	2.0	1.5	9.0	7.0	14.5	11.5	11.5	11.5	7.0	6.5
20	0.5	0.5	2.0	1.5	10.0	9.0	12.0	11.5	11.5	11.0	6.5	6.5
21	0.5	0.5	1.5	1.5	10.0	9.5	13.5	12.5	11.0	11.0	7.0	6.5
22	1.0	0.5	2.0	1.5	10.0	9.5	13.5	12.5	11.0	10.5	8.0	8.0
23	1.0	0.5	2.0	1.5	10.0	9.5	13.5	11.5	10.5	10.0	8.0	7.0
24	1.0	0.0	2.0	1.5	9.5	9.0	13.0	11.0	10.0	9.5	7.0	6.5
25	0.0	0.0	3.0	3.0	10.5	9.5	11.5	11.0	9.5	9.0	6.5	6.0
26	0.0	0.0	3.0	3.0	10.5	9.5	12.0	11.0	9.0	9.0	6.0	5.5
27	0.5	0.0	3.0	2.0	10.5	10.0	14.5	11.5	9.0	8.5	5.5	5.5
28	1.0	0.5	3.0	3.0	10.5	9.5	13.0	12.5	9.0	8.0	5.5	5.0
29	1.0	1.0	3.0	2.0	9.5	9.0	13.0	12.5	9.0	8.0	5.0	4.0
30	1.0	1.0	3.0	3.0	10.0	9.0	15.5	12.0	9.5	9.0	5.0	4.5
31	--	--	4.0	3.0	--	--	15.5	12.5	9.5	9.5	--	--
AVG.	0.0	0.0	2.0	1.5	7.0	6.0	13.0	11.0	11.5	10.0	6.5	6.0

15053800 LAKE CREEK AT AUKE BAY--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.						
30...	1210	3.5	19	33	2	.18
JAN.						
12...	1545	.0	36	2.8	2	.02
MAR.						
12...	1700	.0	45	2.2	1	.01
MAY						
06...	1345	1.0	26	12	1	.03
JULY						
23...	1540	13.0	35	2.3	1	.01

15054000 AUKE CREEK AT AUKE BAY

LOCATION.--Lat 58°22'56", long 134°38'10", temperature recorder at gaging station on right bank, 100 ft downstream from bridge on Glacier Highway, 550 ft downstream from Auke Lake, 0.3 mile upstream from mouth at Auke Bay, and 0.5 mile east of Auke Bay.

DRAINAGE AREA.--3.96 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1968 (partial-record station).
Water temperatures: October 1962 to September 1971.
Sediment records: Water years 1967-68 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 20.5°C July 10; minimum, freezing point on several days during winter months.

EXTREMES, 1965-71.--Water temperatures: Maximum, 22.0°C June 13, 1969; minimum, freezing point on several days during winter months of most years.

REMARKS.--No records available Oct. 1, 1970 to Jan. 12, 1971 due to recorder malfunction.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	--	--	--	--	--	--	--	--	0.0	0.0
2	--	--	--	--	--	--	--	--	--	--	0.0	0.0
3	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
4	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
5	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
6	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
7	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
8	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
9	--	--	--	--	--	--	--	--	0.5	0.5	0.0	0.0
10	--	--	--	--	--	--	--	--	0.5	0.5	0.0	0.0
11	--	--	--	--	--	--	--	--	0.5	0.5	0.0	0.0
12	--	--	--	--	--	--	--	--	0.5	0.5	0.0	0.0
13	--	--	--	--	--	--	1.0	1.0	0.5	0.5	0.0	0.0
14	--	--	--	--	--	--	1.0	1.0	0.5	0.5	0 0	0.0
15	--	--	--	--	--	--	1.0	1.0	0.5	0.5	2.0	0.0
16	--	--	--	--	--	--	1.0	1.0	0.5	0.5	3.5	0.0
17	--	--	--	--	--	--	1.0	1.0	0.5	0.5	5.0	0.0
18	--	--	--	--	--	--	1.5	1.0	0.5	0.5	6.5	2.0
19	--	--	--	--	--	--	1.5	1.0	0.5	0.5	7.5	0.0
20	--	--	--	--	--	--	1.5	1.0	0.5	0.5	1.5	0.0
21	--	--	--	--	--	--	1.5	1.0	0.5	0.5	4.0	1.5
22	--	--	--	--	--	--	1.5	1.0	0.5	0.5	5.0	3.5
23	--	--	--	--	--	--	1.0	1.0	0.5	0.5	4.5	1.0
24	--	--	--	--	--	--	1.0	1.0	0.5	0.0	4.0	1.0
25	--	--	--	--	--	--	1.0	1.0	0.5	0.0	5.5	3.0
26	--	--	--	--	--	--	1.0	1.0	0.0	0.0	4.5	1.0
27	--	--	--	--	--	--	1.0	1.0	0.0	0.0	1.0	0.5
28	--	--	--	--	--	--	1.0	1.0	0.0	0.0	0.5	0.5
29	--	--	--	--	--	--	1.0	1.0	--	--	0.5	0.0
30	--	--	--	--	--	--	1.0	1.0	--	--	1.0	0.0
31	--	--	--	--	--	--	1.0	1.0	--	--	1.5	0.0
AVG	--	--	--	--	--	--	--	--	0.0	0.0	2.0	0.0

15054000 AUKE CREEK AT AUKE BAY.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.0	4.0	2.5	9.0	7.5	14.5	14.0	17.0	15.5	15.5	15.0
2	0.5	0.0	3.0	2.0	8.5	7.0	14.0	13.5	17.0	16.0	15.0	14.0
3	0.5	0.0	3.0	2.5	8.5	7.5	14.0	13.0	17.0	16.0	14.5	14.0
4	0.5	0.0	3.0	2.5	10.5	8.5	14.5	13.5	--	--	14.5	14.0
5	0.5	0.0	4.5	2.5	13.0	10.0	16.0	14.0	--	--	14.0	13.5
6	0.5	0.5	3.5	3.0	14.5	10.5	17.0	15.0	--	--	13.5	13.0
7	1.0	0.5	3.5	3.0	14.5	11.0	18.0	15.5	--	--	13.0	12.5
8	1.0	0.5	3.5	3.0	14.5	10.5	20.0	16.5	--	--	12.5	12.0
9	2.0	0.5	4.0	3.0	12.0	10.0	19.5	17.5	19.0	19.0	12.5	12.0
10	2.0	0.5	3.5	2.5	12.0	10.0	20.5	17.5	19.0	18.5	12.0	12.0
11	1.5	1.0	3.0	2.0	11.5	10.0	20.0	18.0	19.0	18.0	12.0	12.0
12	2.0	1.0	4.0	3.0	12.5	10.5	20.0	18.0	19.5	18.0	12.0	12.0
13	1.5	1.5	4.0	3.0	12.5	10.5	20.0	18.0	19.0	18.5	12.0	12.0
14	2.0	1.0	4.0	3.0	12.5	11.0	19.0	17.0	18.5	18.0	13.0	12.0
15	1.5	1.5	4.0	3.0	13.0	12.0	18.5	17.5	18.0	17.0	12.5	12.0
16	2.0	1.5	4.5	3.0	13.5	12.5	18.0	17.0	18.5	17.0	--	--
17	2.0	1.5	5.0	3.5	14.0	13.5	18.0	17.5	18.0	17.5	--	--
18	2.0	1.5	5.5	4.5	14.0	13.5	18.0	16.5	18.0	17.5	--	--
19	3.0	1.5	5.5	4.5	15.5	14.0	20.0	16.5	18.0	17.0	--	--
20	2.0	1.5	6.5	5.5	16.0	14.0	18.0	16.5	17.5	17.0	--	--
21	2.5	1.5	6.5	4.5	16.5	15.0	18.0	15.0	17.0	16.5	15.0	14.0
22	3.5	1.5	6.0	5.0	16.0	15.0	18.0	14.0	16.5	16.0	15.0	14.5
23	4.5	2.0	6.0	5.0	15.0	14.5	18.0	14.0	16.0	15.5	15.0	14.5
24	3.5	2.0	8.0	6.5	15.0	13.5	17.0	14.5	15.5	15.0	15.0	14.5
25	3.5	2.0	8.0	5.5	17.0	14.0	16.0	14.5	15.0	14.5	15.0	14.5
26	3.0	2.0	7.5	6.0	16.0	15.0	17.0	14.0	15.0	14.5	14.5	14.0
27	3.0	2.0	7.0	5.0	15.5	15.0	18.0	14.0	15.5	14.0	14.5	14.0
28	3.0	2.0	7.5	7.0	15.0	14.0	17.0	15.0	15.5	14.5	13.5	13.0
29	4.5	2.5	7.5	6.0	13.5	13.5	17.0	15.0	15.5	15.0	13.5	13.0
30	5.5	2.5	8.5	7.0	15.0	13.5	17.0	14.5	17.0	15.0	13.5	13.0
31	--	--	8.5	6.5	--	--	17.0	15.5	16.0	15.5	13.0	13.0
AVG	2.0	1.0	5.0	4.0	13.5	12.0	17.5	15.5	--	--	--	--

SOUTHEASTERN ALASKA

1505499D DAVIES CREEK NEAR AUKE BAY

LOCATION.--Lat 58°39'06", long 134°53'07", in NE 1/4 NW 1/4 sec.20, T.37 S., R.63 E., in Tongass National Forest temperature recorder at gaging station on right bank, 0.9 mile upstream from confluence with Cowee Creek, about 1.0 mile southeast of head of Echo Cove, and 2.0 miles northwest of Auke Bay.

DRAINAGE AREA.--15.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-71 (partial-record station).
Water temperatures: October 1969 to September 1971.
Sediment records: Water years 1970-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, not determined; minimum, 0.5°C Nov. 19-20 (may have been lower during periods of missing record in December, January, and February).

REMARKS.--Recorder stopped Dec. 18-27, 1970, Jan. 9 to Feb. 9, 1971, Mar. 31 to Apr. 28, 1971 and July 3-26, 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
NOV.										
04...	93	2.3	160	5.0	.9	.9	.4	18	1.6	1.4
19...	19	3.5	110	7.0	1.0	1.6	.8	25	2.2	1.4
DEC.										
28...	13	5.8	150	12	.8	1.3	.7	30	3.8	7.2
MAR.										
30...	7.9	6.6	350	9.8	.9	1.3	.7	32	4.2	1.0
APR.										
29...	35	--	--	--	--	--	--	24	--	--
JUNE										
03...	85	--	--	--	--	--	--	20	--	--
JULY										
26...	276	--	--	--	--	--	--	12	--	--
SEP.										
23...	120	2.0	490	3.6	.4	.3	.5	12	.8	.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
NOV.									
04...	.1	.4	22	16	1	35	7.3	--	3.0
19...	.1	.5	30	22	2	49	7.7	--	1.0
DEC.									
28...	.1	.2	47	34	9	75	7.4	--	1.0
MAR.									
30...	.1	.5	41	28	2	61	7.4	5	.5
APR.									
29...	--	--	--	20	0	46	7.4	--	1.5
JUNE									
03...	--	--	--	18	2	42	7.4	--	2.0
JULY									
26...	--	--	--	14	4	33	7.1	--	6.0
SEP.									
23...	.0	.1	14	10	0	24	6.9	5	5.5

1554990 DAVIES CREEK NEAR AUKE BAY--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.5	3.0	3.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
2	5.5	5.5	3.0	3.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
3	6.0	5.5	3.0	3.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
4	6.0	5.5	3.0	3.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
5	5.5	4.0	3.0	2.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
6	3.0	3.0	2.0	2.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
7	3.0	3.0	2.0	2.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
8	3.0	3.0	2.0	2.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5
9	4.0	3.0	2.0	1.5	1.0	1.0	--	--	--	--	1.5	1.5
10	4.5	4.0	1.5	1.5	1.0	1.0	--	--	1.0	0.5	1.5	1.5
11	4.5	4.5	1.5	1.5	1.0	1.0	--	--	1.0	1.0	1.5	1.5
12	4.5	4.5	2.0	1.5	1.0	1.0	--	--	1.0	1.0	1.5	1.5
13	4.5	4.5	2.0	2.0	1.0	1.0	--	--	1.0	1.0	1.5	1.5
14	4.5	4.5	2.0	2.0	1.0	1.0	--	--	1.0	1.0	1.5	1.5
15	4.5	4.5	2.0	2.0	1.0	1.0	--	--	1.0	1.0	1.5	1.5
16	4.5	4.5	2.0	2.0	1.0	1.0	--	--	1.0	1.0	1.5	1.5
17	4.5	4.5	2.0	1.5	1.0	1.0	--	--	1.5	1.0	1.5	1.5
18	4.0	4.0	1.5	1.5	--	--	--	--	1.5	1.5	1.5	1.5
19	4.0	3.0	0.5	0.5	--	--	--	--	1.5	1.5	1.5	1.5
20	3.0	3.0	1.0	0.5	--	--	--	--	1.5	1.5	1.5	1.5
21	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	2.0	1.5
22	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	2.0	1.5
23	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	1.5	1.5
24	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	1.5	1.5
25	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	1.5	1.5
26	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	2.0	1.5
27	3.0	3.0	1.0	1.0	--	--	--	--	1.5	1.5	1.5	1.5
28	2.0	2.0	1.0	1.0	1.5	1.5	--	--	1.5	1.5	1.5	1.5
29	2.0	2.0	1.0	1.0	1.5	1.5	--	--	--	--	1.5	1.5
30	2.0	2.0	1.0	1.0	1.5	1.5	--	--	--	--	1.5	1.5
31	3.0	2.0	--	--	1.5	1.5	--	--	--	--	--	--
AVG.	4.0	3.5	1.0	1.0	--	--	--	--	--	--	1.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	2.0	2.0	2.0	2.0	5.5	5.5	6.5	6.5	5.5	5.5
2	--	--	2.0	2.0	2.0	2.0	5.5	5.5	6.5	6.5	5.5	5.5
3	--	--	2.0	2.0	4.0	4.0	--	--	6.5	6.5	6.0	6.0
4	--	--	2.0	2.0	4.5	4.0	--	--	6.5	6.5	6.0	6.0
5	--	--	3.0	1.5	4.5	4.0	--	--	6.0	6.0	5.5	5.5
6	--	--	3.0	2.0	5.0	4.5	--	--	6.0	6.0	5.5	5.5
7	--	--	2.0	1.5	5.0	4.0	--	--	6.0	6.0	5.5	5.5
8	--	--	1.5	1.0	5.0	4.5	--	--	6.0	6.0	5.5	5.5
9	--	--	1.5	1.5	5.0	4.5	--	--	6.0	6.0	5.5	5.5
10	--	--	1.5	1.5	5.0	5.0	--	--	6.0	6.0	5.5	5.5
11	--	--	1.5	1.0	5.0	5.0	--	--	6.0	6.0	5.5	5.5
12	--	--	1.0	1.0	5.0	4.5	--	--	6.0	6.0	5.5	5.5
13	--	--	1.5	1.0	5.0	5.0	--	--	6.0	6.0	5.5	5.5
14	--	--	1.5	1.5	5.0	4.5	--	--	6.0	6.0	5.5	5.5
15	--	--	1.5	1.5	5.0	4.5	--	--	6.0	6.0	5.5	5.5
16	--	--	2.0	1.5	5.0	5.0	--	--	5.5	5.5	5.5	5.5
17	--	--	2.0	1.5	5.0	5.0	--	--	5.5	5.5	5.5	5.5
18	--	--	2.0	2.0	5.0	5.0	--	--	5.5	5.5	5.5	5.5
19	--	--	2.0	2.0	5.0	5.0	--	--	5.5	5.5	5.5	5.5
20	--	--	2.0	2.0	5.5	5.5	--	--	6.0	6.0	5.5	5.5
21	--	--	2.0	2.0	5.5	5.5	--	--	6.0	6.0	5.5	5.5
22	--	--	2.0	2.0	5.5	5.5	--	--	6.0	6.0	5.5	5.5
23	--	--	2.0	2.0	5.5	5.5	--	--	6.0	6.0	5.5	5.5
24	--	--	2.0	2.0	5.5	5.0	--	--	6.0	6.0	5.5	5.5
25	--	--	1.5	1.5	5.5	5.0	--	--	6.0	6.0	5.5	5.5
26	--	--	1.5	1.5	5.5	5.5	--	--	6.0	6.0	5.5	4.5
27	--	--	1.5	1.5	5.5	5.5	6.5	6.5	6.0	6.0	4.5	4.5
28	--	--	1.5	1.5	5.5	5.5	6.5	6.5	6.0	5.5	4.5	4.5
29	2.0	1.5	1.5	1.5	5.5	5.0	6.5	6.5	5.5	5.5	4.5	4.0
30	2.0	2.0	1.5	1.5	5.5	5.5	6.5	6.5	5.5	5.5	4.0	4.0
31	--	--	2.0	1.5	--	--	6.5	6.5	5.5	5.5	--	--
AVG.	--	--	2.0	1.5	5.0	5.0	--	--	6.0	6.0	5.0	5.0

15054990 DAVIES CREEK NEAR AUKE BAY--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV.						
04...	1230	3.0	35	93	4	1.0
19...	1130	1.0	49	19	2	.10
DEC.						
28...	1240	1.0	75	13	1	.04
MAR.						
30...	1100	.5	70	7.9	1	.02
APR.						
29...	1115	1.5	46	35	5	.47
JUNE						
03...	0945	2.0	42	85	2	.46
JULY						
26...	1150	6.0	33	276	57	42
SEP.						
21...	1400	5.5	25	183	25	12

15056210 TAIYA RIVER NEAR SKAGWAY

LOCATION.--Lat 59°30'44", long 135°20'42", in NE 1/4 SW 1/4 sec.22, T.27 S., R.59 E., temperature recorder on left bank at the upstream side of state highway bridge, 1 mile downstream from West Creek, 2.2 miles above mouth at Taiya Inlet, and 4 miles north of Skagway.

DRAINAGE AREA.--179 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1969-71 (partial-record station).
Water temperatures: June 1971 to September 1971.
Sediment records: Water years 1970-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 8.0°C June 15, July 4-5, Aug. 26, 30; minimum, not determined.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
APR.										
07...	89	5.8	220	--	12	1.6	1.4	1.5	44	3.8
JUNE										
15...	1550	3.3	--	50	5.5	1.0	.7	.8	20	1.0

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
APR.										
07...	1.2	.1	.8	50	36	0	82	7.5	0	1.5
JUNE										
15...	.8	.1	.2	23	18	2	39	7.4	10	4.5

15056210 TAIYA RIVER NEAR SKAGWAY.--Continued

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	--	--	--	--	6.0	4.5	7.0	5.5	6.5	5.0
2	--	--	--	--	--	--	5.0	4.5	5.0	4.5	6.5	6.0
3	--	--	--	--	--	--	7.0	4.5	5.0	4.5	7.0	6.0
4	--	--	--	--	--	--	8.0	4.0	7.0	4.0	6.5	6.0
5	--	--	--	--	--	--	8.0	4.0	6.0	4.5	6.5	5.5
6	--	--	--	--	--	--	8.0	4.5	6.0	5.5	7.0	5.5
7	--	--	--	--	--	--	7.5	4.5	7.0	5.5	6.5	6.0
8	--	--	--	--	--	--	7.5	4.5	6.5	5.5	6.5	5.5
9	--	--	--	--	--	--	7.0	4.5	7.0	6.0	7.0	5.5
10	--	--	--	--	--	--	7.0	4.5	7.0	5.5	7.0	5.5
11	--	--	--	--	--	--	7.0	4.5	7.0	5.5	7.0	6.0
12	--	--	--	--	--	--	7.0	4.5	7.5	5.5	6.5	6.0
13	--	--	--	--	--	--	5.5	4.5	6.0	5.5	7.0	6.0
14	--	--	--	--	--	--	5.0	5.0	6.5	6.0	7.5	6.0
15	--	--	--	--	8.0	5.0	6.0	5.0	6.0	5.5	7.0	5.0
16	--	--	--	--	7.0	4.0	5.0	5.0	6.5	6.0	7.0	6.0
17	--	--	--	--	7.0	4.0	6.0	4.5	6.5	5.5	7.5	6.5
18	--	--	--	--	6.5	4.0	6.0	4.0	6.5	5.5	6.5	6.0
19	--	--	--	--	8.0	4.0	7.0	4.0	6.0	5.5	7.0	5.0
20	--	--	--	--	6.0	4.0	5.0	4.5	6.0	5.5	7.0	6.0
21	--	--	--	--	6.0	4.0	6.0	4.5	6.5	5.5	7.0	6.5
22	--	--	--	--	7.0	4.0	7.0	4.5	6.0	5.5	6.5	6.0
23	--	--	--	--	7.0	4.0	7.0	4.0	6.0	5.5	7.0	6.0
24	--	--	--	--	6.5	4.0	6.5	4.0	6.0	5.5	7.0	5.5
25	--	--	--	--	6.5	4.0	5.0	4.5	8.0	5.5	6.5	5.5
26	--	--	--	--	7.0	4.0	5.0	5.0	6.0	5.5	6.0	4.0
27	--	--	--	--	5.0	4.5	6.5	5.0	7.5	5.5	6.0	4.5
28	--	--	--	--	4.5	4.5	5.5	5.0	7.5	5.0	6.5	5.0
29	--	--	--	--	6.0	4.0	6.5	5.0	7.0	5.0	6.0	3.5
30	--	--	--	--	6.0	4.0	7.0	4.5	8.0	5.0	6.0	5.5
31	--	--	--	--	--	--	7.0	4.5	6.5	6.0	--	--
AVG	--	--	--	--	--	--	6.5	4.5	6.5	5.5	6.5	5.5

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
APR.						
07...	1430	1.5	82	89	4	.96
JUNE						
15...	1320	4.5	39	1550	25	105

15081500 STANEY CREEK NEAR CRAIG

LOCATION.--Lat 55°48'57", long 133°07'58", on Prince of Wales Island, in Tongass National Forest, temperature recorder at gaging station on left bank, 1.3 miles upstream from mouth at Tuxekan Passage, and 23 miles north of Craig.

DRAINAGE AREA.--51.6 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1971 (partial-record station).
Water temperatures: April 1966 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 21.5°C July 31, Aug. 1; minimum, freezing point on many days during winter months.

REMARKS.--Water temperatures affected by submergence by high tides. Recorder stopped Jan. 8-19, 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
JULY										
25...	27	2.7	120	10	1.5	3.6	.4	36	4.0	3.2
AUG.										
26...	292	3.5	280	6.5	.8	1.7	.3	19	2.2	1.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
JULY									
25...	.0	.4	44	32	2	76	7.4	10	14.0
AUG.									
26...	.2	.6	26	20	4	42	7.2	90	11.5

15081500 STANEY CREEK NEAR CRAIG--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	6.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5
2	9.5	9.5	6.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0	1.0	0.5
3	9.5	9.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
4	9.0	8.5	5.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
5	8.0	6.5	3.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
6	7.0	5.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
7	6.0	5.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
8	6.5	6.0	3.0	3.0	0.5	0.0	--	--	0.0	0.0	1.0	1.0
9	6.5	6.5	3.0	3.0	1.5	0.0	--	--	0.0	0.0	1.0	1.0
10	7.0	6.5	6.0	3.0	0.0	0.0	--	--	0.0	0.0	1.0	1.0
11	7.0	6.5	5.0	5.0	0.0	0.0	--	--	0.0	0.0	1.0	1.0
12	6.5	6.5	5.0	5.0	0.0	0.0	--	--	0.0	0.0	1.0	1.0
13	7.0	6.5	5.0	4.5	0.0	0.0	--	--	0.0	0.0	1.0	1.0
14	6.5	6.5	4.5	4.5	0.0	0.0	--	--	0.0	0.0	1.0	1.0
15	7.0	7.0	4.5	4.5	0.0	0.0	--	--	0.5	0.0	1.0	1.0
16	7.0	5.5	4.5	4.5	0.0	0.0	--	--	1.0	0.5	1.0	1.0
17	5.5	5.5	4.5	4.0	0.0	0.0	--	--	1.0	1.0	1.0	1.0
18	5.5	5.0	4.0	4.0	0.0	0.0	--	--	1.0	1.0	1.0	1.0
19	5.0	5.0	4.0	1.5	0.0	0.0	--	--	1.0	1.0	2.0	1.0
20	5.0	4.0	1.5	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.0
21	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0	1.5
22	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.5	1.0
23	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.0
24	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0	1.5
25	4.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.5	2.0
26	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.5	3.0
27	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	4.0	2.0
28	4.5	4.0	1.0	0.0	0.5	0.0	0.0	0.0	1.0	0.5	4.0	2.0
29	5.0	4.5	2.5	0.0	0.5	0.0	0.0	0.0	--	--	2.0	1.5
30	5.5	5.0	1.0	0.0	1.0	0.0	0.0	0.0	--	--	2.0	1.0
31	6.0	5.5	--	--	0.0	0.0	0.0	0.0	--	--	2.0	1.0
AVG.	6.0	6.0	3.0	3.0	0.0	0.0	--	--	0.5	0.5	2.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.5	4.0	3.5	8.5	5.5	9.5	8.5	21.5	17.0	12.0	12.0
2	2.0	1.5	4.0	3.5	7.0	4.5	9.5	9.0	17.0	15.5	12.0	12.0
3	2.0	1.0	4.0	3.5	8.5	5.0	9.5	9.0	15.5	15.0	12.0	12.0
4	2.0	1.0	4.5	2.5	9.0	5.5	9.5	9.0	16.5	15.0	12.0	11.0
5	2.0	1.5	6.0	3.5	9.0	5.5	9.5	9.0	16.5	15.0	11.0	10.5
6	1.5	1.5	6.0	3.5	9.0	5.5	9.5	9.0	17.0	14.5	10.5	10.0
7	2.0	1.0	3.5	2.0	9.0	6.0	10.5	9.5	17.0	15.5	10.5	10.5
8	2.0	1.5	3.5	1.5	9.0	6.0	14.5	9.5	16.0	15.0	10.5	10.0
9	3.0	1.5	3.5	2.0	7.0	6.0	16.0	11.5	17.5	14.5	10.0	10.0
10	3.0	2.0	3.5	3.0	7.0	6.5	16.0	12.5	18.0	15.5	10.0	10.0
11	3.0	1.5	5.5	3.0	7.0	6.0	13.5	11.0	18.0	15.5	10.0	10.0
12	3.0	1.5	5.0	3.0	7.0	6.0	14.5	12.0	17.0	16.5	10.0	9.5
13	3.0	2.0	4.5	3.0	10.5	6.0	14.5	11.5	16.5	16.0	9.5	9.5
14	3.0	1.0	4.5	3.0	10.0	6.5	13.5	12.5	16.0	15.0	10.0	9.5
15	2.0	0.5	4.5	3.5	10.0	8.0	12.5	12.0	16.5	15.0	10.0	9.5
16	3.0	1.5	6.5	3.5	10.0	8.0	12.5	12.0	16.0	14.5	10.5	9.5
17	3.0	2.0	6.0	4.0	8.5	8.0	14.5	12.0	15.0	14.5	11.0	10.0
18	3.0	2.0	4.5	4.5	9.5	7.0	15.0	12.5	15.0	13.5	11.0	11.0
19	2.0	1.5	4.5	3.5	9.5	8.0	17.5	13.0	13.5	12.5	12.0	11.0
20	2.0	0.5	7.0	3.5	9.0	7.0	17.0	14.5	12.5	12.0	12.0	11.5
21	2.5	1.0	7.0	4.5	9.0	8.0	17.5	14.0	12.0	12.0	13.0	12.0
22	4.5	2.0	5.5	4.0	8.5	8.0	19.0	14.5	12.0	11.5	13.0	13.0
23	4.5	2.0	5.5	4.5	8.0	7.0	16.5	13.5	12.0	11.5	13.0	12.0
24	4.5	1.5	4.5	4.0	10.0	6.5	17.5	13.0	11.5	11.5	12.0	11.0
25	4.5	2.0	5.0	4.0	10.0	9.0	18.0	13.5	11.5	11.5	11.5	10.5
26	4.5	3.5	5.0	4.5	9.5	8.5	20.5	16.0	11.5	11.5	10.5	8.5
27	4.0	2.0	6.5	4.5	10.0	8.5	21.0	16.5	11.5	10.5	9.0	9.0
28	3.0	2.0	6.5	4.5	10.0	9.0	21.0	17.0	11.5	10.0	9.0	7.0
29	4.0	2.0	6.5	4.0	9.5	8.5	21.0	17.0	12.0	10.0	8.0	6.0
30	4.0	3.5	7.0	4.5	9.5	8.5	21.0	17.0	13.5	11.5	7.0	6.5
31	--	--	8.5	4.5	--	--	21.5	17.5	13.5	12.0	--	--
AVG.	3.0	1.5	5.0	3.0	9.0	7.0	15.0	12.5	15.0	13.5	10.0	10.0

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in SW 1/4 NW 1/4 sec.6, T.75 S., R.86 E., on Prince of Wales Island, in Tongass National Forest, temperature recorder at gaging station on left bank, 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mile downstream from unnamed tributary, and 10 miles south of Kasaan.

DRAINAGE AREA.--5.90 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 17.0°C July 30; minimum, freezing point on several days during December and January.

EXTREMES, 1965-71.--Water temperatures: Maximum, 17.0°C on July 30, 1971; minimum, freezing point on several days during winter months of most years.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	6.5	6.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
2	9.5	9.5	6.5	6.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
3	9.5	9.0	6.0	6.0	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
4	9.0	8.5	6.0	5.5	0.5	0.5	0.0	0.0	0.5	0.5	0.5	0.5
5	8.5	6.5	5.5	5.0	0.0	0.0	0.5	0.0	0.5	0.5	1.0	0.5
6	6.5	5.5	5.0	5.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0
7	5.5	5.5	5.0	5.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0	1.0
8	7.5	5.5	5.0	5.0	0.0	0.0	1.0	1.0	0.5	0.5	1.0	1.0
9	7.5	7.5	5.0	5.0	0.0	0.0	1.0	0.0	0.5	0.5	1.0	1.0
10	7.5	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.5	0.5	1.5	1.0
11	7.5	7.0	5.5	5.5	0.5	0.0	0.0	0.0	0.5	0.5	1.5	1.5
12	7.0	7.0	5.5	5.5	0.5	0.0	0.0	0.0	0.5	0.5	1.5	1.5
13	7.5	7.0	5.5	5.5	0.5	0.5	0.0	0.0	1.0	0.5	1.5	1.5
14	7.5	7.0	5.5	5.5	1.0	0.5	0.0	0.0	0.5	0.5	1.5	1.5
15	7.0	7.0	5.5	5.5	1.0	1.0	0.0	0.0	1.0	0.5	1.5	1.5
16	7.0	6.0	5.5	5.5	1.0	1.0	0.0	0.0	1.0	1.0	1.5	1.5
17	6.0	6.0	5.5	5.0	1.0	0.5	0.0	0.0	1.0	1.0	1.5	1.5
18	6.0	6.0	5.0	5.0	0.5	0.0	0.0	0.0	1.0	1.0	1.5	1.0
19	6.5	6.0	5.0	3.5	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.5
20	6.5	6.0	3.5	1.5	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0
21	6.0	6.0	1.5	1.5	0.0	0.0	0.0	0.0	1.0	1.0	2.0	1.0
22	6.0	5.0	1.5	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.5	1.0
23	5.5	5.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.5	1.0
24	5.5	5.5	1.0	0.5	0.5	0.0	0.0	0.0	1.0	1.0	2.0	1.0
25	5.5	5.0	0.5	0.5	0.0	0.0	0.0	0.0	1.0	0.5	2.0	1.5
26	5.5	5.0	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	2.0	2.0
27	5.5	5.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	2.0	2.0
28	5.5	5.5	0.5	0.5	0.5	0.5	0.0	0.0	0.5	0.5	3.0	1.5
29	5.5	5.5	0.5	0.5	0.5	0.0	0.5	0.0	--	--	2.0	1.5
30	5.5	5.5	0.5	0.5	0.0	0.0	0.5	0.5	--	--	2.0	2.0
31	6.5	5.5	--	--	0.0	0.0	0.5	0.5	--	--	3.0	2.0
AVG.	7.0	6.0	4.0	3.5	0.0	0.0	0.0	0.0	1.0	0.5	1.5	1.0

15085100 OLD TOM CREEK NEAR KASAAN--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.5	2.0	4.0	3.5	4.5	4.0	6.0	5.5	16.0	15.0	11.5	11.5
2	3.0	2.0	4.0	3.5	5.5	4.0	5.5	5.5	14.5	13.5	11.5	11.0
3	3.0	1.5	4.0	3.5	6.0	4.0	5.5	5.5	13.5	13.0	11.0	11.0
4	2.0	1.5	4.5	3.5	6.0	4.0	5.5	5.5	13.5	13.0	11.0	10.5
5	2.0	2.0	5.0	4.0	5.5	4.0	5.5	5.5	13.0	12.5	10.5	9.5
6	2.0	2.0	4.0	4.0	5.0	4.0	5.5	5.5	14.0	12.0	10.0	10.0
7	2.0	2.0	4.0	4.0	5.5	4.5	6.5	5.5	13.5	12.5	10.0	9.5
8	2.0	2.0	4.0	3.5	5.0	4.5	8.0	6.0	14.0	13.0	9.5	9.5
9	3.0	2.0	4.0	3.5	4.5	4.5	9.0	7.0	14.5	12.0	9.5	9.0
10	3.0	3.0	4.0	4.0	4.5	4.5	8.5	7.0	15.5	13.0	9.0	9.0
11	3.5	3.0	5.0	4.0	4.5	4.5	8.5	7.0	15.0	13.5	9.0	9.0
12	3.5	3.0	4.0	4.0	4.5	4.5	8.0	8.0	14.5	14.5	9.0	9.0
13	3.5	3.0	4.0	3.5	5.5	4.0	8.0	8.0	14.5	13.5	9.5	9.0
14	3.5	3.0	4.5	3.5	5.0	4.5	8.0	8.0	13.5	13.5	9.5	9.5
15	3.0	3.0	4.5	3.5	5.0	4.5	8.0	8.0	13.5	12.5	9.5	9.0
16	3.5	3.0	5.0	3.5	5.0	4.5	9.0	8.0	13.0	12.5	9.0	9.0
17	3.5	3.0	4.0	3.5	5.5	4.5	11.0	9.0	12.5	12.5	9.5	9.0
18	3.5	3.0	4.0	3.5	6.0	5.0	10.0	9.5	12.5	12.5	9.5	9.5
19	3.0	2.0	5.0	3.5	5.5	5.0	12.0	10.0	12.5	11.5	10.0	9.5
20	3.0	1.5	4.5	4.0	5.0	5.0	11.5	11.0	11.5	11.0	10.0	10.0
21	2.0	2.0	4.0	3.5	5.0	5.0	13.0	11.0	11.5	11.0	10.5	10.0
22	3.0	2.5	4.0	3.5	5.0	5.0	13.5	11.5	11.5	11.5	10.5	10.5
23	3.0	3.0	4.0	3.5	5.0	5.0	12.0	11.0	11.5	11.5	10.5	10.5
24	4.0	3.0	4.0	3.5	6.5	5.0	13.0	11.0	11.5	11.0	10.5	10.0
25	4.0	3.0	4.5	4.0	6.0	5.5	13.5	11.5	11.0	11.0	10.0	9.0
26	4.0	3.5	4.5	4.0	6.0	5.5	15.0	12.5	11.0	10.5	9.0	7.5
27	4.0	3.5	4.5	4.0	5.5	5.5	16.0	13.5	10.5	10.5	7.5	7.5
28	3.5	3.5	4.5	4.0	5.5	5.5	16.5	14.5	10.5	10.0	7.5	6.5
29	4.5	3.5	4.5	3.5	5.5	5.5	16.5	14.5	11.0	10.0	6.5	6.0
30	4.0	3.5	5.5	3.5	6.0	5.5	17.0	15.0	12.0	11.0	6.5	6.0
31	--	--	5.5	4.0	--	--	16.5	15.0	12.0	11.5	--	--
AVG.	3.0	2.5	4.0	3.5	5.0	5.0	13.0	9.0	12.0	12.0	9.5	9.0

15086600 BIG CREEK NEAR POINT BAKER

LOCATION.--Lat 56°07'54", long 133°08'36", on Prince of Wales Island, in Tongass National Forest, temperature recorder at gaging station on left bank, 1 mile upstream from mouth at Whale Passage, 2.5 miles downstream from small unnamed lake, and 24 miles southeast of Point Baker.

DRAINAGE AREA.--11.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1967, 1969 and 1971 (partial-record station).
Water temperatures: August 1963 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 23.0°C July 31; minimum, freezing point on many days during winter months.

EXTREMES, 1963-71.--Water temperatures: Maximum, 23.5°C June 13, 1969; minimum, freezing point on many days during winter months of most years.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
AUG.										
08...	16	2.4	60	24	.8	1.6	.3	81	.8	.8
SEP.										
06...	109	--	--	--	--	--	--	73	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
AUG.									
08...	.1	.4	71	69	3	134	8.1	20	15.5
SEP.									
06...	--	--	--	66	6	125	7.7	--	10.5

SOUTHEASTERN ALASKA

15086600 BIG CREEK NEAR POINT BAKER--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	7.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
2	9.0	9.0	7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0
3	9.0	9.0	6.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
4	9.0	8.5	5.5	5.0	0.0	0.0	0.5	0.0	0.0	0.0	2.0	0.5
5	8.5	7.5	5.0	4.5	0.0	0.0	1.0	0.5	0.0	0.0	0.5	0.0
6	8.0	7.0	5.5	4.5	0.0	0.0	1.0	1.0	0.0	0.0	1.0	0.0
7	7.5	7.0	6.0	5.5	0.0	0.0	2.0	1.0	0.0	0.0	1.5	0.0
8	8.0	7.5	5.0	4.5	0.0	0.0	2.0	1.5	0.0	0.0	2.5	0.5
9	8.0	7.5	5.0	4.5	0.0	0.0	2.0	0.5	0.0	0.0	2.0	1.5
10	8.0	7.5	5.5	5.5	0.0	0.0	0.5	0.0	0.0	0.0	2.5	1.5
11	8.0	6.5	6.0	5.5	0.0	0.0	0.0	0.0	1.5	0.0	3.0	2.0
12	8.0	7.5	6.0	5.5	1.0	0.0	0.0	0.0	1.5	0.5	3.5	2.0
13	8.0	7.5	5.5	5.5	1.5	1.0	0.0	0.0	1.5	1.0	3.0	2.0
14	8.0	7.5	5.5	5.5	1.5	1.5	0.0	0.0	2.0	1.5	3.0	2.0
15	7.5	7.0	5.5	5.0	1.5	1.0	0.0	0.0	2.0	2.0	3.0	1.5
16	7.0	6.5	5.5	5.0	1.0	1.0	0.0	0.0	2.0	2.0	3.0	1.0
17	6.5	6.0	5.5	5.0	1.0	0.5	0.0	0.0	2.0	2.0	2.5	1.5
18	6.5	6.0	5.0	4.5	0.5	0.0	0.0	0.0	2.0	2.0	2.0	0.5
19	6.5	6.0	4.0	3.0	0.0	0.0	0.0	0.0	2.5	2.0	3.5	1.0
20	6.5	6.0	2.5	1.5	0.0	0.0	0.0	0.0	2.0	1.0	4.0	1.0
21	6.0	6.0	2.5	1.5	0.0	0.0	0.0	0.0	2.0	1.5	4.0	2.0
22	6.0	6.0	2.0	1.5	0.0	0.0	0.0	0.0	2.0	2.0	3.5	0.5
23	6.5	6.5	1.5	1.0	0.0	0.0	0.0	0.0	2.0	1.5	3.0	2.0
24	6.0	5.5	1.0	0.0	0.5	0.0	0.0	0.0	2.0	1.5	5.0	2.0
25	6.5	6.0	0.5	0.0	1.5	0.5	0.0	0.0	2.0	1.0	5.0	2.0
26	6.0	5.5	0.0	0.0	1.0	0.5	0.0	0.0	2.0	1.0	4.0	2.0
27	6.0	5.5	0.0	0.0	1.0	0.5	0.0	0.0	2.0	0.5	4.5	1.5
28	6.0	6.0	0.0	0.0	1.0	0.5	0.0	0.0	2.0	0.5	3.0	2.0
29	6.0	6.0	0.0	0.0	1.0	1.0	0.0	0.0	--	--	4.5	2.0
30	6.5	6.0	0.0	0.0	0.5	0.0	0.0	0.0	--	--	4.5	2.0
31	6.5	6.0	--	--	0.0	0.0	0.0	0.0	--	--	4.0	2.5
AVG.	7.0	7.0	4.0	3.0	0.5	0.0	0.0	0.0	1.0	1.0	3.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	2.0	5.0	3.5	10.0	9.0	15.0	12.5	22.0	17.0	12.0	11.0
2	4.0	2.5	4.5	3.5	12.5	8.5	12.5	12.0	17.5	15.5	11.5	11.0
3	3.0	2.5	4.5	3.5	13.5	8.5	13.5	12.0	17.5	15.5	11.5	10.5
4	4.0	2.5	5.5	3.0	15.0	9.5	14.0	11.5	18.5	16.0	11.0	10.5
5	3.5	3.0	6.0	3.5	16.0	11.0	13.5	11.5	18.0	15.0	11.5	10.5
6	3.5	3.0	4.5	3.5	17.0	12.0	14.5	12.0	19.0	14.0	10.5	9.5
7	3.5	3.0	4.0	3.5	18.0	13.0	15.5	13.0	18.5	15.0	10.5	10.0
8	3.5	3.0	4.5	3.0	14.5	13.5	19.5	12.0	15.5	14.0	10.5	10.0
9	4.0	3.0	4.5	3.0	13.5	12.5	20.5	14.0	18.0	13.0	10.5	10.0
10	4.5	3.0	4.0	3.5	13.0	11.5	18.5	14.5	17.5	15.0	10.0	10.0
11	4.5	3.0	5.5	3.5	12.0	11.0	20.0	14.0	18.0	15.0	10.0	9.5
12	5.0	3.0	5.0	4.5	13.0	10.5	16.0	14.5	17.5	16.0	9.5	9.0
13	4.0	3.0	5.5	4.5	14.5	10.5	17.0	14.0	17.5	15.0	10.5	9.5
14	4.0	3.0	6.0	4.0	13.5	11.0	16.0	14.5	16.0	14.5	10.5	9.5
15	4.0	3.0	7.0	4.5	15.0	12.0	15.5	14.0	16.5	14.5	10.0	9.5
16	5.0	3.0	7.0	4.5	17.0	12.5	15.0	14.5	16.0	11.0	12.0	9.5
17	4.0	3.0	7.5	5.0	15.0	13.0	18.0	13.5	14.0	11.5	12.5	9.5
18	4.0	3.5	5.5	5.0	15.5	12.0	18.5	14.5	13.5	12.0	12.0	10.5
19	5.0	3.5	6.5	5.0	14.5	12.5	21.0	15.0	12.0	12.0	13.0	10.5
20	5.0	3.0	8.5	5.0	13.5	12.0	18.0	16.5	12.0	12.0	12.5	10.5
21	4.0	3.0	6.5	6.0	14.5	11.5	19.0	15.5	12.0	11.5	13.5	12.0
22	4.5	3.0	7.0	5.5	13.0	11.0	19.5	15.0	12.0	11.5	13.5	12.0
23	6.5	3.0	5.5	5.0	12.0	11.0	19.5	14.5	12.0	12.0	13.5	12.0
24	7.0	3.0	5.5	5.5	14.5	11.0	20.5	14.0	12.0	11.5	12.5	10.0
25	7.0	3.0	7.0	6.0	13.5	12.5	20.5	14.5	11.5	11.5	12.0	9.5
26	5.0	3.0	7.0	6.5	16.5	12.0	22.0	17.0	11.5	11.0	10.5	8.5
27	5.0	3.0	7.0	6.5	14.5	12.5	22.5	17.0	13.0	11.0	10.0	8.0
28	5.0	3.0	7.0	7.0	14.0	12.0	22.5	18.0	11.5	11.0	8.5	7.0
29	5.5	3.0	8.5	6.5	13.5	11.0	22.0	17.0	13.5	11.0	8.5	6.5
30	5.0	3.5	9.0	7.0	14.0	11.0	22.5	17.5	13.5	11.5	8.5	7.5
31	--	--	12.0	7.0	--	--	23.0	18.0	12.5	12.0	--	--
AVG.	4.5	3.0	6.0	5.0	14.0	11.0	18.0	14.0	15.0	13.0	11.0	10.0

15D934DD SASHIN CREEK NEAR BIG PORT WALTER

LOCATION.--Lat 56°22'32", long 134°39'40", in NW 1/4 SW 1/4 sec.28, T.63 S., R.69 E., on Baranof Island, in Tongass National Forest, temperature recorder at gaging station on right bank, 0.7 mile upstream from mouth at Little Port Walter, 1 mile downstream from Sashin Lake, and 2.6 miles east of Big Port Walter.

DRAINAGE AREA.--2.68 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1971 (partial-record station).
Water temperatures: October 1966 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 13.5°C Aug. 13-15; minimum, freezing point on several days during December.

EXTREMES, 1966-71.--Water temperatures: Maximum (1968, 69, 71), 17.0°C July 14, 1968; minimum (1967, 68, 70-71), freezing point on several days during winter months in 1967, 1970, and 1971.

REMARKS.--Recorder stopped Oct. 1-8, 1970.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
JULY										
10...	91	2.3	50	2.9	.4	1.8	.3	9	1.0	3.5
AUG.										
25...	269	--	--	--	--	--	--	8	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
JULY									
10...	.1	.3	17	8	1	27	7.0	0	6.0
AUG.									
25...	--	--	--	6	0	22	6.7	--	6.0

15093400 SASHIN CREEK NEAR BIG PORT WALTER--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	6.0	4.5	1.5	1.0	0.5	0.5	1.0	0.5	1.0	1.0
2	--	--	5.5	4.5	1.0	1.0	1.0	0.5	0.5	0.5	1.5	1.0
3	--	--	4.5	4.5	1.0	1.0	1.0	1.0	0.5	0.5	1.5	1.0
4	--	--	5.0	4.5	1.0	1.0	0.5	0.0	0.5	0.5	1.0	0.5
5	--	--	4.5	4.0	1.0	1.0	1.0	0.5	1.0	0.5	1.0	0.5
6	--	--	4.5	4.0	1.0	1.0	1.5	1.0	1.0	1.0	0.5	0.5
7	--	--	4.5	4.5	1.0	0.5	1.5	1.5	1.0	0.5	0.5	0.5
8	--	--	4.5	4.0	1.0	0.5	1.5	1.5	0.5	0.5	0.5	0.5
9	6.5	6.0	4.0	4.0	0.5	0.5	1.5	1.0	0.5	0.5	0.5	0.5
10	6.5	6.5	4.5	4.0	1.0	0.5	1.0	0.5	0.5	0.5	1.0	0.5
11	6.5	6.5	5.0	4.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	1.0
12	7.0	6.5	5.0	5.0	1.5	0.5	0.5	0.5	1.0	0.5	1.0	1.0
13	7.0	7.0	5.0	4.5	1.0	1.0	0.5	0.5	1.0	0.5	1.0	1.0
14	7.0	7.0	5.0	4.5	1.0	1.0	0.5	0.5	1.0	0.5	1.0	0.5
15	7.0	6.5	5.0	4.5	1.0	1.0	0.5	0.5	1.5	1.0	1.0	0.5
16	6.5	6.5	4.5	4.5	1.0	1.0	0.5	0.5	1.5	1.5	1.0	0.5
17	6.0	6.0	4.5	4.5	1.0	0.5	0.5	0.5	1.5	1.5	1.0	0.5
18	6.0	5.0	4.5	4.0	0.5	0.5	0.5	0.5	1.5	1.5	1.0	0.5
19	6.0	5.0	4.0	3.0	0.5	0.0	1.0	0.5	1.5	1.5	1.0	1.0
20	5.0	5.0	3.0	2.5	0.0	0.0	1.0	0.5	1.5	1.0	1.0	1.0
21	5.0	5.0	2.5	2.0	0.5	0.0	0.5	0.5	1.0	1.0	1.0	1.0
22	5.0	4.5	2.5	2.5	1.0	0.5	1.0	1.0	1.5	1.0	1.0	0.5
23	5.0	4.5	3.0	2.5	1.0	1.0	1.5	0.5	1.5	0.5	1.0	0.5
24	5.0	4.5	2.5	2.5	1.0	0.5	0.5	0.5	1.5	1.0	1.0	0.5
25	5.0	4.5	2.5	2.0	1.0	1.0	0.5	0.5	--	--	1.0	1.0
26	4.5	3.0	2.5	2.0	1.0	0.5	0.5	0.5	1.0	0.5	1.0	1.0
27	4.5	3.0	2.0	2.0	1.0	0.5	0.5	0.5	1.5	1.0	1.0	0.5
28	4.5	4.5	2.0	2.0	1.0	1.0	1.0	0.5	1.0	1.0	1.0	0.5
29	4.5	4.5	2.0	1.5	1.0	1.0	1.0	1.0	--	--	1.0	0.5
30	4.5	4.5	1.5	1.5	1.0	0.5	1.0	0.5	--	--	1.0	0.5
31	5.5	4.5	--	--	0.5	0.5	1.0	1.0	--	--	1.0	0.5
AVG.	--	--	4.0	3.5	1.0	0.5	1.0	0.5	1.0	0.5	1.0	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	0.5	1.5	1.0	2.5	1.5	4.5	3.5	13.0	10.5	10.5	10.0
2	1.0	0.5	1.0	1.0	2.5	1.5	4.5	4.0	12.5	11.5	10.5	10.0
3	0.5	0.5	1.5	1.0	3.5	2.0	4.0	4.0	12.5	10.5	10.0	9.0
4	1.0	0.5	1.5	0.5	3.5	2.0	4.5	4.0	11.5	11.0	9.5	9.0
5	1.0	1.0	1.5	1.0	3.5	2.0	4.0	4.0	13.0	11.5	9.0	9.0
6	1.0	1.0	1.0	1.0	3.5	2.0	5.5	4.0	12.5	12.0	9.0	8.0
7	1.0	0.5	1.0	1.0	3.5	2.0	5.0	4.0	12.0	11.5	8.0	7.5
8	1.0	1.0	1.0	1.0	2.5	2.5	6.0	4.0	12.5	11.5	7.5	7.5
9	1.0	1.0	1.0	1.0	2.5	2.5	6.0	4.5	12.5	11.5	7.5	7.5
10	1.0	1.0	1.0	1.0	2.5	2.5	6.0	4.5	13.0	12.0	7.5	7.0
11	1.0	1.0	1.0	1.0	2.5	2.5	5.0	3.5	13.0	12.0	7.5	7.0
12	1.0	1.0	1.5	1.0	3.5	2.5	4.5	4.0	13.0	12.0	8.0	7.5
13	1.0	0.5	1.5	1.5	3.5	2.5	5.0	4.0	13.5	12.5	7.5	7.5
14	1.0	0.5	1.5	1.5	4.0	2.5	4.5	4.5	13.5	13.0	7.5	7.5
15	1.0	1.0	2.0	1.0	4.0	2.5	5.0	4.5	13.5	13.0	7.5	7.5
16	1.0	1.0	2.0	1.5	3.5	2.5	6.0	5.0	13.0	12.5	8.0	7.5
17	1.0	0.5	1.5	1.0	3.5	2.5	7.0	5.5	12.5	11.5	9.0	8.0
18	1.0	0.5	1.5	1.5	3.5	2.5	7.0	6.5	11.5	10.0	8.0	8.0
19	1.0	0.5	2.0	1.0	3.0	2.5	7.5	6.0	10.0	10.0	9.0	8.0
20	1.5	1.0	2.0	1.0	3.0	2.5	8.0	6.5	10.0	9.5	9.0	8.0
21	1.0	1.0	1.5	1.5	3.5	3.0	8.0	7.0	9.5	9.0	9.5	9.0
22	1.0	1.0	1.5	1.5	3.5	3.5	8.0	7.0	9.5	9.0	9.5	9.0
23	1.0	1.0	1.5	1.0	3.5	3.5	9.0	7.5	9.5	9.0	9.5	9.0
24	1.5	1.0	2.0	1.5	4.0	3.5	9.5	8.0	9.0	9.0	9.5	9.5
25	1.5	1.0	1.5	1.5	4.0	3.5	10.0	8.0	8.0	8.0	9.5	8.0
26	1.5	1.0	1.5	1.5	4.5	3.5	11.0	9.5	8.0	8.0	8.0	7.0
27	1.5	1.0	1.5	1.5	4.5	3.5	11.5	10.0	8.0	8.0	8.0	7.5
28	1.5	1.0	2.0	1.5	4.0	3.5	13.0	11.0	9.0	8.0	7.5	7.0
29	1.0	1.0	2.0	1.5	4.0	3.5	13.0	11.5	9.5	9.0	7.0	6.0
30	1.0	1.0	2.0	1.5	4.5	3.5	12.5	10.0	10.5	9.5	8.0	7.0
31	--	--	2.5	1.5	--	--	13.0	10.0	10.5	10.0	--	--
AVG.	1.0	1.0	1.5	1.0	3.0	2.0	7.0	5.0	11.0	10.0	9.0	8.0

15093600 EAST BRANCH LOVERS COVE CREEK NEAR BIG PORT WALTER

LOCATION.--Lat 56°23'33", long 134°42'47", in NE 1/4 SE 1/4 sec.24, T.63 S., R.68 E., on Baranof Island, in Tongass National Forest, temperature recorder at gaging station on right bank, 300 ft upstream from mouth at Lovers Cove, and 1.2 miles northeast of Big Port Walter.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--Chemical analyses: Water year 1971 (partial-record station).
Water temperatures: October 1965 to August 1971 (discontinued).

EXTREMES, 1970-71.--Water temperatures: Maximum, 10.5°C Aug. 6, 9; minimum, 0.5°C Dec. 3-5, 7 (may have been lower during periods of missing record in January, February and March).

EXTREMES, 1966-71.--Water temperatures: Maximum, 22.0°C Aug. 10, 13, 1968; minimum (1967-71), freezing point on several days during winter months of most years.

REMARKS.--Water temperatures affected by submergence by high tides. Recorder stopped Dec. 28, 1970 to Mar. 28, 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
JULY										
11...	21	3.1	20	2.3	.4	1.8	.4	8	2.0	2.8

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
JULY									
11...	.1	.2	17	7	0	23	7.0	0	3.5

15093600 EAST BRANCH LOVERS COVE CREEK NEAR BIG PORT WALTER--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO AUGUST 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	6.0	6.0	5.5	3.0	1.0	--	--	--	--	--	--
2	6.0	6.0	6.0	5.5	2.5	1.0	---	--	--	--	--	--
3	6.0	6.0	6.0	5.5	2.5	0.5	--	--	--	--	--	--
4	6.0	6.0	6.0	5.5	2.5	0.5	--	--	--	--	--	--
5	6.0	6.0	5.5	5.5	2.0	0.5	--	--	--	--	--	--
											--	--
6	6.0	6.0	5.5	5.5	2.5	1.0	--	--	--	--	--	--
7	6.0	6.0	5.5	5.5	2.5	0.5	--	--	--	--	--	--
8	6.0	6.0	5.5	5.5	3.0	0.0	--	--	--	--	--	--
9	6.5	6.0	6.0	5.5	4.0	2.0	--	--	--	--	--	--
10	6.5	6.5	6.0	5.5	4.5	4.0	--	--	--	--	--	--
11	6.5	6.5	6.0	5.5	4.5	4.5	--	--	--	--	--	--
12	6.5	6.5	5.5	5.5	4.0	4.0	--	--	--	--	--	--
13	7.0	6.5	5.5	5.5	4.0	4.0	--	--	--	--	--	--
14	7.0	6.5	5.5	5.5	4.0	4.0	--	--	--	--	--	--
15	7.0	6.5	6.0	5.5	4.0	4.0	--	--	--	--	--	--
16	7.0	6.5	6.0	5.5	4.0	4.0	--	--	--	--	--	--
17	6.5	6.5	5.5	5.5	4.0	4.0	--	--	--	--	--	--
18	6.5	6.5	5.5	5.5	4.0	4.0	--	--	--	--	--	--
19	6.5	6.5	5.5	5.5	4.0	3.0	--	--	--	--	--	--
20	6.5	6.5	5.5	5.5	3.5	3.5	--	--	--	--	--	--
21	6.5	6.5	5.5	5.0	3.5	3.5	--	--	--	--	--	--
22	6.5	6.5	5.0	5.0	3.5	3.0	--	--	--	--	--	--
23	6.5	6.5	5.0	5.0	3.0	3.0	--	--	--	--	--	--
24	6.5	6.0	5.0	5.0	4.0	3.0	--	--	--	--	--	--
25	6.0	6.0	5.5	4.5	4.0	3.5	--	--	--	--	--	--
26	6.0	6.0	4.5	4.5	4.5	3.5	--	--	--	--	--	--
27	6.0	6.0	4.5	2.5	4.0	4.0	--	--	--	--	--	--
28	6.0	6.0	4.5	3.5	--	--	--	--	--	--	--	--
29	6.0	6.0	4.0	2.5	--	--	--	--	--	--	--	--
30	6.0	6.0	3.5	2.0	--	--	--	--	--	--	--	--
31	6.0	6.0	--	--	--	--	--	--	--	--	--	--
AVG.	6.0	6.0	5.0	4.0	3.0	2.5	--	--	--	--	--	--

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	--	2.5	2.5	3.0	3.0	3.0	2.5	6.0	6.0		
2	--	--	2.5	2.5	3.0	3.0	2.5	2.5	6.0	6.0		
3	--	--	2.5	2.5	3.0	3.0	2.5	2.0	8.0	6.0		
4	--	--	2.0	2.0	3.0	2.0	2.0	2.0	8.5	6.0		
5	--	--	2.5	2.0	2.5	2.0	2.0	2.0	9.0	6.0		
6	--	--	2.0	2.0	3.5	2.5	5.0	2.0	10.5	6.0		
7	--	--	2.0	2.0	3.0	2.5	--	--	10.0	6.0		
8	--	--	2.0	2.0	5.0	2.5	--	--	9.5	6.0		
9	--	--	3.0	2.0	5.5	3.0	--	--	10.5	6.0		
10	--	--	3.0	2.0	3.5	3.0	--	--	10.0	6.0		
11	--	--	2.5	2.0	4.0	3.0	3.0	3.0	9.5	6.0		
12	--	--	2.5	2.0	4.0	3.0	3.0	3.0	8.0	6.0		
13	--	--	2.5	2.0	3.0	3.0	3.0	3.0	7.5	6.0		
14	--	--	3.5	2.0	2.5	2.5	3.0	3.0	6.0	6.0		
15	--	--	3.0	2.0	3.0	2.5	3.0	3.0	6.0	6.0		
16	--	--	2.5	2.0	3.0	3.0	3.0	3.0	6.0	6.0		
17	--	--	2.0	2.0	3.0	3.0	3.0	3.0	6.0	6.0		
18	--	--	2.0	2.0	5.5	3.0	3.0	3.0	6.0	6.0		
19	--	--	2.0	2.0	6.5	2.5	3.0	3.0	6.0	6.0		
20	--	--	3.5	2.0	4.5	3.0	3.0	3.0	6.0	6.0		
21	--	--	5.0	2.0	5.5	3.0	6.0	3.0	6.0	6.0		
22	--	--	5.0	2.0	6.0	3.0	6.5	5.5	6.0	6.0		
23	--	--	5.0	2.5	6.5	3.0	7.0	5.5	6.0	6.0		
24	--	--	5.0	2.0	6.5	2.5	7.5	6.0	6.0	6.0		
25	--	--	5.0	2.0	6.5	2.0	6.0	6.0	6.0	6.0		
26	--	--	5.0	2.5	5.5	3.0	6.0	6.0	--	--		
27	--	--	4.5	2.5	3.0	3.0	6.0	6.0	--	--		
28	--	--	4.5	2.5	3.0	3.0	6.0	6.0	--	--		
29	2.5	2.0	3.0	2.5	3.0	3.0	6.0	6.0	--	--		
30	2.5	2.0	2.5	2.5	3.0	3.0	6.0	6.0	--	--		
31	--	--	3.0	2.5	--	--	6.0	6.0	--	--		
AVG.	--	--	3.0	2.0	4.0	3.0	3.0	3.0	--	--		

15101600 WHEELER CREEK NEAR DOUGLAS

LOCATION.--Lat 58°01'49", long 134°46'08", in SE 1/4 NE 1/4 sec.27, T.44 S., R.65 E., on Admiralty Island in Tongass National Forest, temperature recorder at gaging station on left bank, 2.4 miles above mouth at Game Cove in Chatham Strait, and 22 miles southwest of Douglas.

DRAINAGE AREA.--57.1 sq mi.

PERIOD OF RECORD.--Water temperatures: May 1970 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, not determined; minimum, freezing point on many days during winter months.

REMARKS.--Miscellaneous sample of chemical data published for water year 1970. No records available Dec. 11, 1970 to Apr. 27, 1971, June 28 to July 8, 1971, and Aug. 22 to Sept. 20, 1971 due to recorder malfunction.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	6.0	4.5	4.0	--	--	--	--	--	--	--	--
2	6.5	6.0	4.5	4.0	--	--	--	--	--	--	--	--
3	6.5	6.0	4.0	3.5	--	--	--	--	--	--	--	--
4	6.0	5.5	4.0	3.0	--	--	--	--	--	--	--	--
5	5.5	5.0	3.5	3.0	--	--	--	--	--	--	---	--
											--	--
6	4.5	2.0	3.5	2.0	--	--	--	--	--	--	--	--
7	4.5	3.0	2.5	2.0	--	--	--	--	--	--	--	--
8	4.5	4.0	3.0	2.0	--	--	--	--	--	--	--	--
9	4.5	4.5	3.0	2.0	--	--	--	--	--	--	--	--
10	5.0	4.5	3.0	2.0	--	--	--	--	--	--	--	--
11	5.0	4.5	3.5	3.0	0.0	0.0	--	--	--	--	--	--
12	5.0	4.5	3.5	3.0	0.0	0.0	--	--	--	--	--	--
13	5.0	5.0	3.5	3.0	0.0	0.0	--	--	--	--	--	--
14	5.0	5.0	3.5	2.5	0.0	0.0	--	--	--	--	--	--
15	5.0	4.5	3.5	3.0	0.0	0.0	--	--	--	--	--	--
16	4.5	4.0	3.5	3.0	0.0	0.0	--	--	--	--	--	--
17	4.0	3.5	3.5	2.5	0.0	0.0	--	--	--	--	--	--
18	3.5	3.5	3.0	2.0	0.0	0.0	--	--	--	--	--	--
19	3.5	0.0	3.0	3.0	0.0	0.0	--	--	--	--	--	--
20	4.0	1.0	3.5	3.0	0.0	0.0	--	--	--	--	--	--
21	3.5	1.0	2.5	0.5	0.0	0.0	--	--	--	--	--	--
22	3.5	1.0	2.5	0.5	0.0	0.0	--	--	--	--	---	---
23	3.0	0.0	1.0	1.0	0.0	0.0	--	--	--	--	--	--
24	3.0	1.0	1.5	1.0	0.0	0.0	--	--	--	--	--	--
25	3.0	0.5	1.5	1.5	0.0	0.0	--	--	--	--	--	--
26	3.0	1.0	1.5	1.5	0.0	0.0	--	--	--	--	--	--
27	3.5	3.0	3.0	1.5	0.0	0.0	--	--	--	--	--	--
28	3.0	0.5	3.0	2.5	0.0	0.0	--	--	--	--	--	--
29	4.0	3.0	2.5	2.5	0.0	0.0	--	--	--	--	--	--
30	4.0	3.5	2.5	2.5	0.0	0.0	--	--	--	--	--	--
31	4.5	3.5	--	--	0.0	0.0	--	--	--	--	--	--
AVG	4.5	3.0	3.0	2.5	--	--	--	--	--	--	--	--

SOUTHEASTERN ALASKA

15101600 WHEELER CREEK NEAR DOUGLAS--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	7.0	2.5	6.5	4.0	--	--	9.0	8.0	--	--
2	--	--	5.0	2.5	7.5	4.0	--	--	9.0	7.5	--	--
3	--	--	6.5	2.5	7.0	3.5	--	--	9.0	8.0	--	--
4	--	--	6.5	2.5	7.5	4.0	--	--	9.0	8.0	--	--
5	--	--	8.0	3.5	7.0	4.0	--	--	9.0	9.0	--	--
6	--	--	4.0	1.5	7.5	4.0	--	--	9.0	8.0	--	--
7	--	--	4.0	1.0	8.5	5.0	--	--	9.0	9.0	--	--
8	--	--	4.0	2.0	7.5	6.0	7.0	6.5	9.0	9.0	--	--
9	--	--	5.5	2.5	8.0	7.0	7.5	7.5	9.0	8.0	--	--
10	--	--	4.5	2.5	8.5	7.5	7.5	7.5	9.0	9.0	--	--
11	--	--	7.5	2.5	8.0	7.0	7.5	7.5	9.0	9.0	--	--
12	--	--	8.0	2.5	7.0	6.0	7.5	6.5	9.0	9.0	--	--
13	--	--	8.5	2.5	7.5	6.0	7.5	6.5	9.0	8.0	--	--
14	--	--	5.0	3.0	8.0	7.0	7.5	6.5	9.0	9.0	--	--
15	--	--	5.5	3.0	8.5	7.0	7.5	6.5	9.0	8.0	--	--
16	--	--	8.5	3.0	8.5	7.5	7.5	6.5	9.0	8.0	--	--
17	--	--	6.5	3.5	7.5	6.5	7.5	6.5	9.0	8.0	--	--
18	--	--	5.5	4.0	8.0	7.0	8.5	7.0	9.0	8.0	--	--
19	--	--	6.0	3.5	8.5	7.0	8.5	7.0	9.0	8.0	--	--
20	--	--	6.0	3.5	8.5	7.0	8.5	7.0	9.0	8.0	--	--
21	--	--	5.0	3.5	8.5	7.0	9.0	8.0	9.0	8.0	--	--
22	--	--	4.5	3.5	8.5	7.0	9.0	8.0	--	--	--	--
23	--	--	6.5	3.5	8.0	7.0	9.0	8.0	--	--	--	--
24	--	--	8.0	3.5	8.0	7.0	9.0	8.0	--	--	--	--
25	--	--	7.5	3.5	8.0	7.0	9.0	8.0	--	--	--	--
26	--	--	6.0	4.0	8.0	7.0	9.0	8.0	--	--	--	--
27	3.5	3.0	8.0	4.0	8.0	7.5	9.0	8.0	--	--	--	--
28	6.0	4.5	5.5	3.5	8.0	7.5	9.0	8.0	--	--	--	--
29	5.5	3.0	6.5	3.5	--	--	9.0	9.0	--	--	--	--
30	4.0	2.5	5.0	3.5	--	--	9.0	9.0	--	--	--	--
31			7.0	4.0	--	--	9.0	8.0	--	--	--	--
AVG	--	--	6.0	3.0	7.5	6.0	--	--	--	--	--	--

15102400 HOOD BAY CREEK NEAR ANGOON

LOCATION.--Lat 57°20'01", long 134°21'17", on Admiralty Island in Tongass National Forest, temperature recorder at gaging station on right bank, 0.6 mile above mouth at South Arm Hood Bay, and 14 miles southeast of Angoon.

DRAINAGE AREA.--6.55 sq mi.

PERIOD OF RECORD.--Water temperature: July 1970 to September 1971 (discontinued).

EXTREMES, 1970-71.--Water temperature: Maximum, 12°C Aug. 19, minimum not determined.

REMARKS.--No records available Oct. 1-7, 1970; Nov. 4, 1970 to Feb. 9, 1971 due to recorder malfunction. Miscellaneous samples of chemical data published for water year 1970.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	5.0	5.0	--	--	--	--	--	--	0.0	0.0
2	--	--	5.0	5.0	--	---	--	--	--	--	0.5	0.0
3	--	--	5.0	5.0	--	--	--	--	--	--	1.0	0.0
4	--	--	--	--	--	--	--	--	--	--	1.0	0.0
5	--	--	--	--	--	--	--	--	--	--	1.0	0.0
6	--	--	--	--	--	--	--	--	--	--	1.0	0.0
7	--	--	--	--	--	--	--	--	--	--	1.0	0.0
8	7.5	7.0	--	--	--	--	--	--	--	--	1.0	0.0
9	7.0	6.5	--	--	--	--	--	--	--	--	0.5	0.5
10	7.5	6.5	--	--	--	--	--	--	0.5	0.0	1.0	0.5
11	7.0	6.0	--	--	--	--	--	--	0.5	0.5	1.5	1.0
12	7.5	6.5	--	--	--	--	--	--	0.0	0.0	2.0	1.5
13	7.0	7.0	--	--	--	--	--	--	1.5	1.5	2.0	1.5
14	7.0	7.0	--	--	--	--	--	--	1.5	1.5	2.0	1.0
15	7.0	6.5	--	--	--	--	--	--	1.5	1.5	2.0	1.0
					--	--						
16	6.5	6.5	--	--	--	--	--	--	2.0	1.5	2.0	1.5
17	6.5	6.0	--	--	--	--	--	--	2.0	1.5	2.0	0.0
18	6.0	6.0	--	--	--	--	--	--	2.0	1.5	1.5	0.5
19	6.0	5.0	--	--	--	--	--	--	2.0	1.0	2.0	1.0
20	6.0	6.0	--	--	--	--	--	--	1.0	0.0	2.0	1.0
21	6.0	5.5	--	--	--	--	--	--	2.0	2.0	2.0	1.0
22	5.5	5.0	--	--	--	--	--	--	2.0	1.5	1.5	1.0
23	5.5	5.0	--	--	--	--	--	--	1.5	1.5	2.0	1.0
24	5.5	5.0	--	--	--	--	--	--	1.5	1.5	2.5	1.0
25	5.5	5.0	--	--	--	--	--	--	1.0	1.0	1.5	1.0
26	5.5	5.0	--	--	--	--	--	--	1.0	1.0	0.5	0.0
27	5.5	5.0	--	--	--	--	--	--	0.0	0.0	1.0	0.5
28	5.5	5.0	--	--	--	--	--	--	0.0	0.0	1.5	1.0
29	5.0	5.0	--	--	--	--	--	--	--	--	4.0	1.0
30	5.0	5.0	--	--	--	--	--	--	--	--	2.5	1.0
31	5.5	5.0	--	--	--	--	--	--	--	--	2.0	1.0
AVG	--	--	--	--	--	--	--	--	--	--	1.5	0.5

15102400 HOOD BAY CREEK NEAR ANGOON.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971.--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.5	1.5	5.0	2.0	4.0	3.0	5.5	4.0	10.0	8.0	9.0	8.5
2	2.5	1.0	3.5	2.0	4.5	2.5	5.0	4.5	10.0	8.5	9.0	8.5
3	1.5	0.0	4.0	2.0	5.5	3.0	5.5	4.5	10.5	8.5	10.0	8.5
4	2.5	1.5	3.5	2.0	6.0	3.0	5.5	4.5	10.0	8.0	9.0	8.5
5	2.5	1.5	4.5	2.0	6.0	3.0	6.0	4.5	10.0	8.5	9.0	8.5
6	2.0	1.5	3.0	2.0	5.5	3.0	6.5	4.5	10.0	8.5	9.0	8.5
7	4.5	2.0	3.0	2.0	5.5	3.0	6.5	4.5	10.0	8.5	9.0	8.5
8	3.5	1.5	3.0	2.0	4.0	3.0	7.0	4.5	10.0	8.5	9.0	8.5
9	3.0	1.5	3.5	2.0	4.5	3.5	8.0	6.5	10.5	8.5	9.0	8.5
10	3.5	2.0	2.5	1.0	4.0	3.5	8.5	6.0	10.5	9.0	9.0	8.5
11	3.5	2.0	2.5	1.0	4.5	3.0	9.0	6.0	10.5	9.0	9.0	8.5
12	6.5	2.0	2.5	1.0	4.5	3.0	8.0	6.5	10.0	9.0	9.0	8.5
13	3.0	1.0	2.5	1.5	5.5	3.0	9.0	6.5	10.5	9.0	9.0	8.5
14	2.5	1.5	3.0	1.5	6.0	3.0	8.0	7.0	10.5	9.0	9.0	8.5
15	3.0	2.0	3.0	2.0	6.0	3.5	7.5	7.0	11.0	9.0	9.0	8.0
16	3.5	2.0	4.0	2.0	6.0	3.5	8.0	7.0	10.5	9.0	10.0	9.0
17	3.0	1.5	4.0	1.5	4.5	3.5	8.0	7.0	11.0	9.0	10.0	9.0
18	4.5	1.5	3.0	2.0	5.0	3.5	8.0	7.0	10.5	9.0	9.5	9.0
19	3.0	2.0	3.0	2.0	5.0	3.5	10.0	7.0	12.0	10.0	10.0	9.0
20	5.5	2.0	4.0	2.0	5.0	4.0	8.5	7.5	10.0	9.5	10.0	9.0
21	3.0	2.0	4.0	2.0	5.0	3.5	8.5	7.5	10.0	9.5	10.5	9.5
22	4.0	2.0	3.0	2.0	4.5	4.0	10.0	7.5	10.0	9.5	10.0	9.0
23	4.5	1.5	3.0	2.0	4.5	4.0	10.0	7.5	10.0	9.5	10.5	9.0
24	4.5	1.5	3.5	2.0	5.0	4.0	10.0	7.5	8.5	8.0	10.0	9.0
25	4.0	2.0	3.5	2.0	5.5	4.0	10.0	7.5	8.0	8.0	10.0	8.0
26	4.0	2.0	3.0	2.0	5.0	4.0	11.0	7.5	8.5	8.0	9.0	7.5
27	4.0	2.0	3.5	2.0	5.0	4.0	11.0	8.0	9.0	7.5	9.5	8.0
28	3.0	2.0	3.5	2.5	5.0	4.0	10.0	8.0	8.0	7.5	9.0	7.0
29	4.0	2.5	4.0	2.0	5.5	4.0	10.5	8.0	9.0	8.0	8.5	6.5
30	4.0	2.5	3.5	2.0	6.0	4.0	11.0	8.0	10.0	8.0	9.0	8.0
31	--	--	5.5	2.5	--	--	11.0	8.0	8.5	8.0	--	--
AVG	3.0	1.5	3.5	2.0	4.5	3.5	8.5	6.5	10.0	7.0	9.0	8.0

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'59", long 135°11'26", in SE 1/4 NW 1/4 sec.34, T.48 S., R.63 E., on Chicagof Island in Tongass National Forest, temperature recorder at gaging station on left bank, 0.6 mile upstream from Hook Creek, 3.5 miles upstream from mouth at Kadashan Bay, and 9 miles south of Tenakee.

DRAINAGE AREA.--10.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1967-71 (partial-record station).
Water temperatures: October 1967 to September 1971.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 11.5°C July 29-31, Aug. 1-5, 9-20; minimum, freezing point on many days during winter months.

EXTREMES, 1967-71.--Water temperatures: Maximum, 12.0°C Aug. 22, 1968; minimum, freezing point on many days during winter months in 1970 and 1971.

REMARKS.--No records available Oct. 1-5, 1970, Feb. 10-23, 1971 due to recorder malfuntion.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
06...	38	5.4	60	11	1.1	1.8	.2	34	4.4	2.5
DEC.										
10...	84	3.7	400	5.0	.8	2.0	.2	14	1.6	4.8
APR.										
27...	74	--	--	--	--	--	--	20	--	--
JULY										
08...	43	--	--	--	--	--	--	22	--	--
AUG.										
19...	163	4.1	560	5.0	.5	1.3	.2	14	3.4	1.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
06...	.1	.3	44	31	3	70	7.9	--	4.5
DEC.									
10...	.1	.1	25	16	5	42	7.1	0	.5
APR.									
27...	--	--	--	20	4	45	7.4	--	2.0
JULY									
08...	--	--	--	18	0	46	7.3	--	7.5
AUG.									
19...	.2	1.3	24	14	3	32	7.1	60	11.0

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	5.0	5.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
2	--	--	5.0	5.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
3	--	--	5.0	4.5	0.0	0.0	0.5	0.5	1.0	0.5	0.5	0.5
4	--	--	4.5	3.5	0.0	0.0	0.5	0.5	1.0	1.0	0.5	0.5
5	--	--	3.5	3.5	0.0	0.0	1.0	0.5	1.0	1.0	0.5	0.5
6	4.5	4.5	3.5	3.0	0.0	0.0	1.0	1.0	1.0	1.0	0.5	0.5
7	4.5	4.5	3.0	3.0	0.0	0.0	1.0	0.5	1.0	1.0	0.5	0.5
8	5.5	4.5	3.0	3.0	--	--	0.5	0.5	1.0	0.5	0.5	0.5
9	5.5	5.5	3.0	3.0	--	--	0.5	0.5	0.5	0.5	0.5	0.5
10	5.5	5.5	3.5	3.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
11	5.5	5.5	4.0	3.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
12	6.5	5.5	4.0	4.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
13	6.5	6.5	4.0	4.0	0.5	0.5	0.5	0.5	-	--	0.5	0.5
14	6.5	6.5	4.0	4.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
15	6.5	5.0	4.0	4.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
16	5.0	4.5	4.0	4.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
17	4.5	4.0	4.0	3.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
18	4.0	4.0	3.0	2.5	0.5	0.5	0.5	0.5	--	--	0.5	0.5
19	4.0	3.5	2.5	1.5	0.5	0.5	0.5	0.5	--	--	0.5	0.5
20	3.5	3.5	1.5	0.5	0.5	0.5	0.5	0.5	--	--	0.5	0.5
21	3.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	0.5	0.5
22	3.5	3.5	0.5	0.5	0.5	0.5	0.5	0.5	--	--	0.5	0.5
23	3.5	3.5	0.5	0.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
24	3.5	3.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
25	3.5	3.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
26	3.5	3.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
27	3.5	3.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
28	3.5	3.5	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
29	4.0	3.5	0.0	0.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
30	4.5	3.0	0.0	0.0	0.5	0.5	0.5	0.5	--	--	0.5	0.5
31	5.0	4.5	--	--	0.5	0.5	0.5	0.5	--	--	0.5	0.5
AVG.	--	--	2.5	2.0	0.0	0.0	0.5	0.5	--	--	0.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
Day	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.5	0.5	2.5	2.0	3.5	3.0	6.0	5.5	11.5	11.0	10.0	10.0
2	0.5	0.5	2.5	2.0	3.5	3.0	5.5	5.5	11.5	11.5	10.0	10.0
3	0.5	0.5	2.0	2.0	4.5	3.0	6.0	5.5	11.5	11.5	10.0	10.0
4	0.5	0.5	2.5	2.0	4.5	3.5	6.5	6.0	11.5	11.0	10.0	10.0
5	0.5	0.5	3.0	2.5	4.0	3.5	7.5	7.0	11.5	11.0	10.0	9.5
6	0.5	0.5	2.5	0.5	3.5	3.0	7.5	7.0	11.0	10.5	9.5	9.5
7	0.5	0.5	0.5	0.5	4.0	3.5	7.0	7.0	11.0	10.5	9.5	9.0
8	0.5	0.5	2.0	0.5	4.0	3.5	8.5	8.0	11.0	11.0	9.0	8.5
9	1.5	0.5	2.0	2.0	3.5	3.5	8.5	8.0	11.5	11.0	8.5	8.5
10	1.5	1.5	2.0	1.0	4.0	3.5	9.0	8.0	11.5	11.5	8.5	8.5
11	1.5	1.0	1.0	1.0	4.0	4.0	9.0	8.5	11.5	11.5	8.5	8.5
12	1.0	1.0	2.0	1.0	4.0	3.5	9.0	8.5	11.5	11.5	8.5	8.5
13	1.5	1.0	2.5	2.0	4.0	3.5	8.5	8.0	11.5	11.5	8.5	8.5
14	1.5	1.5	2.5	2.0	4.0	3.5	8.5	8.5	11.5	11.5	8.5	8.0
15	1.5	1.5	2.0	2.0	4.5	4.0	8.5	8.5	11.5	11.0	8.0	7.0
16	1.5	1.5	2.0	2.0	4.5	4.0	8.5	8.5	11.5	11.0	8.0	7.0
17	1.5	1.5	2.0	2.0	4.5	4.5	9.0	8.5	11.5	11.0	8.0	8.0
18	1.5	1.5	2.0	2.0	4.5	4.5	9.0	8.5	11.5	11.5	8.5	8.0
19	1.5	1.5	2.0	2.0	4.5	4.5	9.5	9.0	11.5	11.5	8.5	8.5
20	1.5	1.5	2.5	2.0	4.5	4.5	9.5	9.5	11.5	11.0	8.5	8.5
21	1.5	1.5	2.5	2.5	5.0	4.5	9.5	9.5	11.0	10.5	9.0	8.5
22	1.5	1.5	3.0	2.5	5.0	5.0	9.5	9.5	10.5	10.5	9.0	9.0
23	1.5	1.5	3.0	3.0	5.0	5.0	9.5	9.0	10.5	10.5	9.0	8.5
24	1.5	1.5	3.0	3.0	5.5	5.0	9.5	9.5	10.5	10.0	8.5	8.0
25	--	--	3.0	2.5	6.0	5.0	9.5	9.5	10.0	10.0	8.0	7.0
26	--	--	3.0	2.5	6.0	5.5	10.0	9.5	10.0	10.0	7.0	6.5
27	2.5	2.0	3.0	3.0	5.5	5.0	11.0	10.0	10.0	9.5	6.5	6.0
28	2.5	2.0	3.0	2.5	5.5	5.5	11.0	11.0	9.5	9.0	6.0	6.0
29	2.5	2.0	3.5	2.5	5.5	5.5	11.5	11.0	9.0	9.0	6.0	5.5
30	2.5	2.5	3.5	3.0	6.0	5.5	11.5	11.5	10.0	9.0	5.0	5.0
31	--	--	4.0	3.0	--	--	11.5	11.0	10.0	10.0	--	--
AVG.	1.0	1.0	2.5	2.0	4.5	4.0	9.0	8.5	11.0	10.5	8.5	8.0

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.						
06...	1800	4.5	70	38	2	.21
DEC.						
10...	1130	.5	43	84	2	.45
APR.						
27...	1330	2.0	45	74	1	.20
JULY						
08...	1220	7.5	46	43	8	.93
AUG.						
19...	1345	11.0	32	163	14	6.2

15106940 HOOK CREEK ABOVE TRIBUTARY, NEAR TENAKEE

LOCATION.--Lat 57°40'49", long 135°07'58", in SW 1/4 NE 1/4 sec.25, T.48 S., R.63 E., on Chicagof Island in Tongass National Forest, temperature recorder at gaging station on right bank, 0.5 mile upstream from unnamed tributary, 2.5 miles upstream from confluence with Kadashan River, and 9 miles south of Tenakee.

DRAINAGE AREA.--4.48 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-71 (partial-record station).
Water temperatures: August 1967 to September 1971.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 12.0°C July 31; minimum, freezing point on many days during winter months.

EXTREMES, 1967-71.--Water temperatures: Maximum, 12.5°C July 28, 1970; minimum, freezing point on many days during winter months of most years.

REMARKS.--Recorder stopped Oct. 8 to Dec. 8, 1970.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
07...	20	3.5	90	11	.9	2.1	.4	38	1.4	2.1
DEC.										
09...	3.3	5.4	250	16	.7	2.0	.5	52	1.6	3.0
FEB.										
24...	8.1	4.5	320	11	.6	1.9	.4	35	.6	3.0
APR.										
27...	32	--	--	--	--	--	--	24	--	--
JULY										
08...	21	--	--	--	--	--	--	34	--	--
AUG.										
19...	134	2.7	300	5.4	.4	1.2	.3	14	.6	1.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
07...	.1	.2	41	30	0	71	7.8	--	4.0
DEC.									
09...	.2	.3	56	44	1	93	7.8	0	.0
FEB.									
24...	.1	.2	39	29	0	66	7.0	5	.0
APR.									
27...	--	--	--	24	4	47	7.4	--	2.0
JULY									
08...	--	--	--	29	1	61	7.7	--	7.0
AUG.									
19...	.3	.5	20	15	4	32	6.7	90	7.5

15106940 HOOK CREEK ABOVE TRIBUTARY NEAR TENAKEE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
2	8.0	7.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
3	8.0	7.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
4	7.5	6.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
5	6.5	4.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
6	4.5	4.5	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0
7	5.0	4.5	--	--	--	--	0.0	0.0	0.0	0.0	0.5	0.5
8	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.5	0.5
9	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
10	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
11	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
12	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
13	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
14	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
15	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
16	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
17	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
18	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
19	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
20	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
21	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
22	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
23	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
24	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
25	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
26	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
27	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
28	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
29	--	--	--	--	0.0	0.0	0.0	0.0	--	--	1.5	1.0
30	--	--	--	--	0.0	0.0	0.0	0.0	--	--	1.0	1.0
31	--	--	--	--	0.0	0.0	0.0	0.0	--	--	1.5	1.0
AVG.	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	2.0	2.0	3.0	2.5	6.0	5.0	11.5	9.5	8.0	7.5
2	1.5	1.5	2.0	1.5	4.0	3.0	6.0	6.0	10.5	9.5	8.0	7.5
3	1.5	1.0	1.5	1.5	4.5	3.0	6.5	6.0	9.5	9.0	7.5	7.5
4	1.0	1.0	2.0	1.5	4.5	3.0	7.0	6.0	9.5	8.0	7.5	7.5
5	1.0	1.0	2.5	2.0	4.5	3.0	7.5	6.0	9.5	9.0	7.5	6.5
6	1.0	1.0	2.5	1.5	4.0	3.0	8.0	6.5	9.0	8.0	7.0	6.5
7	1.0	1.0	1.5	1.5	4.0	3.0	8.0	6.5	9.5	9.0	6.5	6.5
8	1.0	1.0	2.0	1.5	4.0	3.0	8.0	6.5	10.0	9.0	6.5	6.0
9	2.0	1.0	2.5	2.0	4.0	4.0	8.0	7.0	9.5	8.0	6.5	6.0
10	2.0	1.0	2.5	1.5	4.0	3.0	9.0	8.0	9.0	8.0	6.0	6.0
11	1.5	1.5	1.5	1.5	4.5	4.0	9.0	7.0	9.5	9.0	6.0	6.0
12	2.0	1.5	2.0	1.5	4.5	3.0	8.0	7.0	9.5	9.0	6.0	6.0
13	1.5	1.0	2.0	2.0	4.5	3.0	8.0	7.0	9.5	9.0	6.5	6.0
14	1.5	1.0	2.5	2.0	5.0	3.0	8.0	7.5	9.0	9.0	6.5	6.0
15	1.0	1.0	2.5	2.0	5.5	4.0	8.0	7.5	9.0	9.0	6.0	5.5
16	1.5	1.0	2.5	2.0	5.0	4.0	8.0	8.0	9.0	7.5	6.5	6.0
17	2.0	2.0	2.5	2.0	4.5	4.0	9.0	8.0	9.0	8.0	6.5	6.5
18	2.0	2.0	2.5	2.5	4.5	4.0	9.0	7.5	8.0	7.5	6.5	6.5
19	2.0	1.5	2.5	2.5	4.5	4.0	10.0	8.0	7.5	7.5	7.0	7.0
20	2.5	2.0	3.0	2.5	5.0	4.5	10.0	9.0	7.5	7.0	7.5	7.0
21	2.5	2.0	2.5	2.5	5.5	4.5	9.5	9.0	7.0	7.0	7.5	7.5
22	2.5	2.0	2.5	2.5	5.0	4.5	10.0	7.5	7.0	7.0	7.5	7.5
23	2.0	2.0	2.5	2.5	5.0	5.0	10.0	7.5	7.0	6.5	7.5	7.0
24	2.5	2.0	2.5	2.5	5.5	5.0	10.0	7.5	7.5	7.0	7.0	6.5
25	2.0	1.5	2.5	2.5	6.5	5.0	9.5	8.0	7.0	7.0	7.0	6.5
26	2.0	1.5	2.5	2.5	5.5	5.5	10.0	8.0	7.0	6.5	7.0	5.5
27	2.0	1.5	2.5	2.5	6.5	5.5	11.5	9.5	7.0	6.5	6.0	5.5
28	2.0	2.0	2.5	2.5	6.0	5.5	11.5	10.0	6.5	5.5	6.0	5.0
29	2.0	2.0	3.0	2.5	6.0	5.5	11.5	10.0	7.0	6.0	5.0	4.5
30	2.0	2.0	3.0	2.5	6.0	5.5	11.5	10.5	7.5	6.5	5.5	5.0
31	--	--	4.0	2.5	--	--	12.0	9.5	7.5	7.0	--	--
AVG.	2.0	2.0	2.5	2.0	5.0	4.0	9.0	8.0	8.0	7.0	6.0	6.0

15106940 HOOK CREEK ABOVE TRIBUTARY NEAR TENAKEE--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
07...	1010	4.0	71	20	1	.05
DEC.						
09...	--	.0	93	3.3	1	.01
FEB.						
24...	1230	.0	75	8.1	1	.02
APR.						
27...	1240	2.0	47	32	5	.43
JULY						
08...	1110	7.0	61	21	1	.06
AUG.						
19...	1355	7.5	32	134	6	2.2

15106960 HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°40'32", long 135°10'05", in SW 1/4 sec.26, T.48 S., R.63 E., on Chicagof Island in Tongass National Forest, temperature recorder at gaging station on right bank, 1 mile upstream from confluence with Kadashan River, and 9 miles south of Tenakee.

DRAINAGE AREA.--8.00 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-71 (partial-record station).
Water temperatures: August 1966 to September 1971.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum and minimum not determined.

EXTREMES, 1966-71.--Water temperatures: Maximum, 12°C on several days during July and August in 1967; minimum, freezing point on many days during winter season of most years.

REMARKS.--No records available Oct. 1 to July 7, Aug. 5 to Sept. 30 due to recorder malfunction.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
05...	38	3.5	40	11	.9	1.8	.4	38	1.4	2.1
DEC.										
10...	56	3.2	330	7.2	.5	2.0	.3	20	.4	5.0
APR.										
27...	57	--	--	--	--	--	--	25	--	--
JULY										
08...	31	--	--	--	--	--	--	34	--	--
AUG.										
19...	234	3.0	560	6.0	.5	1.3	.3	18	1.2	1.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
05...	.1	.2	39	30	0	71	7.9	--	5.0
DEC.									
10...	.2	.2	29	20	4	51	7.3	0	.0
APR.									
27...	--	--	--	23	3	52	7.5	--	2.0
JULY									
08...	--	--	--	28	0	62	7.6	--	6.5
AUG.									
19...	.2	.4	23	17	2	38	7.0	90	11.0

15106960 HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE (°C) OF WATER, PERIOD JULY TO AUGUST, 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	--	--	--	--	--	--	10.0	10.0	--	--
2	--	--	--	--	--	--	--	--	10.0	10.0	--	--
3	--	--	--	--	--	--	--	--	10.0	10.0	--	--
4	--	--	--	--	--	--	--	--	10.0	10.0	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	6.5	5.5	--	--	--	--
9	--	--	--	--	--	--	5.5	5.5	--	--	--	--
10	--	--	--	--	--	--	9.5	5.0	--	--	--	--
									--	--		
11	--	--	--	--	--	--	10.0	6.5	--	--	--	--
12	--	--	--	--	--	--	8.5	5.5	--	--	--	--
13	--	--	--	--	--	--	8.0	6.0	--	--	--	--
14	--	--	--	--	--	--	9.5	5.0	--	--	--	--
15	--	--	--	--	--	--	8.0	6.0	--	--	--	--
16	--	--	--	--	--	--	9.5	6.5	--	--	--	--
17	--	--	--	--	--	--	10.5	7.5	--	--	--	--
18	--	--	--	--	--	--	10.5	8.5	--	--	--	--
19	--	--	--	--	--	--	10.0	8.0	--	--	--	--
20	--	--	--	--	--	--	10.0	10.0	--	--	--	--
21	--	--	--	--	--	--	10.0	10.0	--	--	--	--
22	--	--	--	--	--	--	10.0	10.0	--	--	--	--
23	--	--	--	--	--	--	10.0	10.0	--	--	--	--
24	--	--	--	--	--	--	10.0	10.0	--	--	--	--
25	--	--	--	--	--	--	10.0	10.0	--	--	--	--
									--	--		
26	--	--	--	--	--	--	10.0	10.0	--	--	--	--
27	--	--	--	--	--	--	10.0	10.0	--	--	--	--
28	--	--	--	--	--	--	10.0	10.0	--	--	--	--
29	--	--	--	--	--	--	10.0	10.0	--	--	--	--
30	--	--	--	--	--	--	10.0	10.0	--	--	--	--
31	--	--	--	--	--	--	10.0	10.0	--	--	--	--
AVG.	--	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
05...	1730	5.0	71	38	3	.31
DEC.						
10...	--	.0	51	56	3	.45
APR.						
27...	1130	2.0	52	57	2	.31
JULY						
08...	1030	6.5	62	31	1	.08
AUG.						
19...	1210	11.0	38	234	11	6.9

15106980 TONALITE CREEK NEAR TENAKEE

LOCATION.--Lat 57°40'25", long 135°13'58", on Chicagof Island in Tongass National Forest, temperature recorder at gaging station on right bank, 2 miles upstream from confluence with Kadashan River, and 9 miles south of Tenakee.

DRAINAGE AREA.--14.5 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-71 (partial-record station).
Water temperatures: June 1968 to September 1971.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum and minimum not determined.

EXTREMES, 1968-71.--Water temperatures: Maximum, 14.0°C Aug. 12, 1968; minimum, freezing point on many days during winter months in 1969.

REMARKS.--No records available Oct. 1 to Apr. 26, Aug. 20 to Sept. 30 due to recorder malfunction.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
06...	48	5.5	60	6.6	1.6	1.8	.1	23	4.6	2.5
DEC.										
09...	16	--	--	--	--	2.1	.2	22	--	--
FEB.										
24...	33	6.1	--	5.8	.7	2.1	.3	16	4.0	3.5
APR.										
27...	127	--	--	--	--	--	--	14	--	--
JULY										
08...	56	--	--	--	--	--	--	18	--	--
AUG.										
19...	108	--	--	--	--	--	--	17	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
06...	.1	.2	34	23	5	50	7.7	--	4.0
DEC.									
09...	--	--	--	22	4	57	7.4	--	.0
FEB.									
24...	.1	.4	31	18	5	47	7.4	0	.0
APR.									
27...	--	--	--	14	3	36	7.1	--	1.0
JULY									
08...	--	--	--	15	0	41	7.5	--	7.0
AUG.									
19...	--	--	--	18	4	46	6.8	--	10.5

15106980 TONALITE CREEK NEAR TENAKEE--Continued

TEMPERATURE (°C) OF WATER, PERIOD APRIL TO AUGUST, 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	2.5	2.0	4.0	4.0	6.0	6.0	9.5	8.5	--	--
2	--	--	2.5	2.0	4.5	4.0	6.0	6.0	9.5	9.0	--	--
3	--	--	2.0	2.0	4.5	4.5	6.0	6.0	9.5	9.0	--	--
4	--	--	3.0	2.0	4.5	4.5	6.0	6.0	9.5	9.0	--	--
5	--	--	2.5	2.5	4.5	4.5	7.0	7.0	9.5	9.0	--	--
6	--	--	2.5	2.5	4.5	4.5	7.0	7.0	9.5	9.0	--	--
7	--	--	2.5	2.5	4.5	4.5	7.0	7.0	9.5	9.0	--	--
8	--	--	2.5	2.5	4.5	4.5	7.0	7.0	9.5	9.5	--	--
9	--	--	3.0	3.0	4.5	4.5	7.5	7.0	9.5	9.5	--	--
10	--	--	3.0	3.0	5.0	4.5	7.5	7.0	9.5	9.5	--	--
11	--	--	3.0	3.0	5.0	5.0	7.5	7.0	9.5	9.5	--	--
12	--	--	3.0	3.0	5.0	5.0	8.0	7.0	9.5	9.5	--	--
13	--	--	3.0	3.0	5.0	5.0	8.0	7.5	9.5	9.5	--	--
14	--	--	3.0	3.0	5.0	5.0	8.0	7.5	9.5	9.5	--	--
15	--	--	3.0	3.0	5.0	5.0	8.0	7.5	10.0	9.5	--	--
16	--	--	3.0	3.0	5.5	5.0	8.0	7.5	10.0	10.0	--	--
17	--	--	3.5	3.0	5.5	5.0	8.0	7.5	10.0	10.0	--	--
18	--	--	3.5	3.5	5.5	5.0	8.0	8.0	10.0	10.0	--	--
19	--	--	3.5	3.5	5.5	5.0	8.0	8.0	10.5	10.5	--	--
20	--	--	3.5	3.5	5.5	5.0	8.0	8.0	--	--	---	--
21	--	--	3.5	3.5	5.5	5.0	8.0	8.0	--	--	--	--
22	--	--	3.5	3.5	5.5	5.0	8.0	8.0	--	--	--	--
23	--	--	3.5	3.5	5.5	5.0	8.5	8.0	--	--	--	--
24	--	--	3.5	3.5	5.5	5.0	8.5	8.0	--	--	--	--
25	--	--	3.5	3.5	5.5	5.0	9.0	8.0	--	--	--	--
26	--	--	4.0	4.0	5.5	5.0	8.5	8.5	--	--	--	--
27	2.0	1.5	4.0	4.0	6.0	6.6	9.0	8.5	--	--	--	--
28	2.0	1.5	4.0	4.0	6.0	6.0	9.0	8.5	--	--	--	--
29	2.5	2.0	4.0	4.0	6.0	6.0	9.0	8.5	--	--	--	--
30	2.5	2.0	4.0	4.0	6.0	6.0	9.5	8.5	--	--	--	--
31	--	--	4.0	4.0	--	--	9.5	8.5	--	--	--	--
AVG.	--	--	3.0	3.0	5.0	5.0	8.0	7.5	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.						
06...	1050	4.0	53	48	2	.26
DEC.						
09...	1530	.0	57	16	2	.09
FEB.						
24...	1030	.0	47	33	1	.09
APR.						
27...	1115	1.0	36	127	2	.69
JULY						
08...	1030	7.0	41	56	2	.30
AUG.						
19...	1130	10.5	46	108	34	9.9

15107000 KADASHAN RIVER NEAR TENAKEE

LOCATION.--Lat 57°41'43", long 135°12'59", in SE 1/4 NW 1/4 sec.21, T.48 S., R.63 E., on Chicagof Island, in Tongass National Forest, temperature recorder at gaging station on right bank, 700 ft downstream from mouth of Tonalite Creek, 0.5 mile upstream from mouth, and 7 miles south of Tenakee.

DRAINAGE AREA.--37.7 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1967-71 (partial-record station).
Water temperatures: June 1966 to September 1971.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 14.5°C July 29, Aug. 7-8; minimum, freezing point on many days during winter months.

EXTREMES, 1966-71.--Water temperatures: Maximum, 17°C Aug. 7, 1968; minimum, freezing point on several days during winter months of most years.

REMARKS.--Water temperatures affected by submergence by high tides. Recorder stopped Dec. 2-8, 1970, Jan. 31 to Feb. 22, Feb. 27 to Apr. 20, and July 4-7, 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
OCT.									
05...	175	5.3	100	8.0	.9	1.8	.2	27	3.4
APR.									
26...	311	--	--	--	--	--	--	14	--
JULY									
08...	131	--	--	--	--	--	--	28	--
AUG.									
19...	410	--	--	--	--	--	--	16	--

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
OCT.									
05...	2.1	.1	.3	35	24	2	58	--	5.5
APR.									
26...	--	--	--	--	18	7	35	7.1	2.0
JULY									
08...	--	--	--	--	22	0	55	7.1	11.0
AUG.									
19...	--	--	--	--	16	3	40	7.0	12.0

15107000 KAOASHAN RIVER NEAR TENAKEE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	6.0	6.0	0.5	0.0	0.5	0.5	--	--	--	--
2	8.0	7.5	6.0	6.0	--	--	0.5	0.5	--	--	--	--
3	8.0	8.0	6.0	6.0	--	--	0.5	0.5	--	--	--	--
4	8.0	7.0	6.0	4.5	--	--	0.5	0.5	--	--	--	--
5	5.5	5.5	4.5	4.0	--	--	0.5	0.0	--	--	--	--
6	5.5	5.0	4.0	3.0	--	--	0.0	0.0	--	--	--	--
7	5.5	5.0	3.5	3.5	--	--	0.5	0.0	--	--	--	--
8	6.0	4.5	3.5	3.5	--	--	1.0	0.5	--	--	--	--
9	6.0	6.0	3.5	3.0	0.5	0.5	0.5	0.5	--	--	--	--
10	6.5	6.0	5.0	3.0	0.5	0.5	0.5	0.5	--	--	--	--
11	6.5	6.0	5.5	4.0	0.5	0.5	0.5	0.5	--	--	--	--
12	6.5	6.0	5.0	5.0	0.5	0.0	0.5	0.5	--	--	--	--
13	7.0	6.5	5.5	5.0	0.0	0.0	0.5	0.5	--	--	--	--
14	7.0	7.0	5.0	5.0	0.0	0.0	0.5	0.5	--	--	--	--
15	7.0	6.0	5.0	5.0	0.0	0.0	0.5	0.5	--	--	--	--
16	6.0	5.5	5.0	4.5	0.0	0.0	0.5	0.5	--	--	--	--
17	5.5	5.0	4.5	3.5	0.5	0.5	0.5	0.5	--	--	--	--
18	5.0	5.0	3.5	3.0	0.5	0.5	0.5	0.5	--	--	--	--
19	5.0	4.5	3.0	1.5	0.5	0.5	0.5	0.5	--	--	--	--
20	4.5	4.0	1.5	1.0	0.5	0.5	0.5	0.5	--	--	--	--
21	4.0	4.0	1.0	1.0	0.5	0.5	0.5	0.5	--	--	--	--
22	4.0	4.0	1.0	0.5	0.5	0.5	0.5	0.5	--	--	--	--
23	4.5	4.0	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	--	--
24	4.5	4.5	1.0	0.5	0.5	0.5	0.5	0.5	1.0	1.0	--	--
25	4.0	4.0	0.5	0.5	0.0	0.0	0.5	0.5	1.0	1.0	--	--
26	4.0	4.0	0.5	0.5	0.0	0.0	0.5	0.0	1.0	1.0	--	--
27	4.5	4.0	0.5	0.5	0.0	0.0	0.5	0.0	--	--	--	--
28	4.5	4.5	0.5	0.5	0.5	0.0	0.5	0.0	--	--	--	--
29	5.0	4.5	0.5	0.0	0.5	0.5	0.5	0.5	--	--	--	--
30	5.0	5.0	0.5	0.0	0.5	0.5	0.5	0.5	--	--	--	--
31	6.0	5.0	--	--	0.5	0.5	--	--	--	--	--	--
AVG.	6.0	5.0	3.0	3.0	0.5	0.0	0.5	0.5	--	--	--	--

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	2.5	2.0	4.0	3.0	7.5	7.0	14.0	12.5	10.5	9.5
2	--	--	2.5	2.0	5.0	3.0	7.5	7.0	13.5	12.5	10.5	10.5
3	--	--	2.0	1.5	6.0	3.0	7.5	6.5	13.0	12.0	10.5	10.5
4	--	--	2.5	1.5	6.5	3.0	--	--	13.0	11.5	10.5	10.0
5	--	--	3.5	1.5	6.5	3.0	--	--	13.0	12.0	10.0	9.0
6	--	--	2.0	0.5	6.0	3.0	--	--	12.0	11.5	9.0	9.0
7	--	--	1.0	0.5	6.5	3.0	--	--	14.5	11.5	9.0	8.5
8	--	--	2.0	1.0	5.0	3.5	11.0	9.5	14.5	11.5	8.5	8.0
9	--	--	2.5	1.5	5.0	4.0	10.5	9.0	12.5	11.5	8.0	7.5
10	--	--	2.5	1.5	5.0	4.0	11.5	9.0	13.0	12.0	7.5	7.5
11	--	--	1.5	1.0	6.0	4.0	12.0	9.0	13.5	11.5	7.5	7.5
12	--	--	3.0	1.5	6.0	4.0	12.0	10.0	13.0	12.0	7.5	7.5
13	--	--	2.5	1.5	6.0	4.0	11.5	10.0	13.0	12.0	8.0	7.5
14	--	--	3.5	1.5	7.0	4.0	10.5	10.0	12.5	11.5	8.0	7.5
15	--	--	3.5	2.0	7.0	5.0	10.0	10.0	12.0	11.0	7.5	7.0
16	--	--	4.0	2.0	6.5	5.0	10.0	10.0	11.5	11.0	8.0	7.0
17	--	--	3.5	2.0	6.0	5.0	11.0	10.0	12.0	11.0	8.5	8.0
18	--	--	3.5	3.0	6.0	5.0	11.5	9.5	12.0	10.5	8.5	8.5
19	--	--	3.5	2.0	6.0	5.0	12.5	10.0	12.0	10.5	8.5	8.5
20	--	--	4.0	2.0	6.0	5.5	12.5	11.0	11.5	10.5	8.5	8.5
21	2.5	2.0	4.0	2.5	7.0	5.5	11.5	11.0	11.0	10.5	9.0	8.5
22	3.0	2.0	3.0	2.5	6.5	5.5	12.0	9.5	10.5	10.0	9.0	9.0
23	2.5	1.0	3.0	2.5	6.0	5.5	12.0	10.0	10.5	10.0	9.0	8.5
24	2.0	1.0	3.5	2.5	7.0	5.5	12.5	10.0	10.0	9.5	8.5	7.5
25	1.5	1.0	3.5	2.5	7.5	6.5	12.0	11.0	10.0	9.0	7.5	7.0
26	2.0	1.0	3.5	3.0	7.0	6.5	13.0	11.0	9.5	9.0	7.0	6.0
27	2.5	1.0	4.0	3.0	9.0	6.5	14.0	11.5	9.5	9.0	6.5	6.0
28	2.0	1.5	3.5	3.0	8.5	6.5	14.0	12.5	9.0	8.5	6.5	5.5
29	2.5	1.5	4.0	2.5	7.5	6.5	14.5	13.0	9.0	8.5	6.0	5.0
30	3.0	2.0	4.0	3.0	8.0	6.5	14.0	13.0	10.5	9.0	6.0	5.5
31	--	--	6.0	3.0	--	--	14.0	12.5	10.5	9.5	---	--
AVG.	--	--	3.0	2.0	6.0	4.0	10.0	9.0	11.0	11.0	8.0	8.0

15107000 KADASHAN RIVER NEAR TENAKEE--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.						
05...	1545	5.5	58	175	1	.47
APR.						
26...	1900	2.0	35	311	4	3.4
JULY						
08...	1340	11.0	55	131	1	.35
AUG.						
19...	1800	12.0	40	410	14	15

15129500 SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°34'56", long 139°29'17", temperature recorder on left bank 500 ft downstream from Forest Service road bridge, 5.25 miles downstream from Situk Lake, and 8.75 miles northeast of Yakutat.

DRAINAGE AREA.--Undeterminable.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 17.5°C July 11, 19; minimum, not determined.

REMARKS.--No records available Nov. 18 to Dec. 6, 1970 and Feb. 5 to May 10, 1971 due to recorder malfunction.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	4.5	4.5	--	--	0.5	0.5	0.5	0.5	--	--
2	8.0	8.0	4.5	4.0	--	--	0.5	0.5	0.5	0.5	--	--
3	8.5	7.5	4.5	4.0	--	--	1.0	0.5	0.5	0.0	--	--
4	8.0	6.5	4.5	3.5	--	--	1.0	1.0	0.0	0.0	--	--
5	7.5	6.0	3.5	3.0	--	--	1.0	1.0	--	--	--	--
6	7.0	6.0	3.0	2.0	--	--	1.0	1.0	--	--	--	--
7	7.5	5.5	3.0	2.0	2.0	1.5	1.0	1.0	--	--	--	--
8	8.0	7.0	3.0	2.0	1.5	1.0	1.0	1.0	--	--	--	--
9	6.5	6.0	3.0	2.0	1.5	1.0	1.0	0.5	--	--	--	--
10	7.0	6.0	3.0	2.0	1.5	1.0	1.0	0.5	--	--	--	--
11	6.5	5.0	3.5	3.0	2.0	1.0	0.5	0.5	--	--	--	--
12	7.0	6.0	3.5	3.0	2.5	2.0	0.5	0.5	--	--	--	--
13	6.5	5.5	3.5	3.0	2.5	2.0	0.5	0.5	--	--	--	--
14	7.0	5.5	3.5	3.0	2.5	2.0	0.5	0.5	--	--	--	--
15	7.0	6.0	3.5	3.0	2.5	1.0	0.5	0.5	--	--	--	--
16	6.0	5.5	3.5	3.0	1.0	1.0	0.5	0.5	--	--	--	--
17	6.0	5.5	3.5	3.0	1.0	1.0	0.5	0.5	--	--	--	--
18	6.0	5.0	--	--	1.0	1.0	0.5	0.5	--	--	--	--
19	5.0	4.0	--	--	1.5	1.5	0.5	0.5	--	--	--	--
20	5.0	4.0	--	--	1.5	1.5	0.5	0.5	--	--	--	--
21	4.5	4.0	--	--	1.5	1.5	0.5	0.5	--	--	--	--
22	4.5	4.0	--	--	2.0	1.5	0.5	0.5	--	--	--	--
23	4.0	4.0	--	--	2.0	1.5	0.5	0.5	--	--	--	--
24	4.0	3.0	--	--	2.5	2.0	0.5	0.5	--	--	--	--
25	4.0	3.0	--	--	2.0	1.0	0.5	0.5	--	--	--	--
26	4.0	3.5	--	--	1.5	1.0	0.5	0.5	--	--	--	--
27	4.5	3.5	--	--	1.0	0.5	0.5	0.5	--	--	--	--
28	3.5	3.0	--	--	1.0	0.5	0.5	0.5	--	--	--	--
29	4.5	3.5	--	--	1.0	0.5	0.5	0.5	--	--	--	--
30	4.5	4.5	--	--	1.0	0.5	0.5	0.5	--	--	--	---
31	4.5	4.5	--	--	1.0	0.5	0.5	0.5	--	--	--	--
AVG	6.0	5.0	--	--	--	--	0.5	0.5	--	--	--	--

15129500 SITUK RIVER NEAR YAKUTAT--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	--	--	4.0	3.0	10.5	9.5	16.0	14.0	12.5	11.5
2	--	--	--	--	4.5	3.5	10.0	9.0	14.5	13.0	12.0	11.0
3	--	--	--	--	7.5	6.5	11.5	9.0	15.0	13.0	12.0	10.5
4	--	--	--	--	9.0	8.0	14.0	9.5	17.0	12.0	12.0	10.5
5	--	--	--	--	10.0	9.5	14.5	10.5	14.5	13.0	12.5	10.0
6	--	--	--	--	10.0	9.0	13.0	11.0	13.0	12.5	11.0	10.5
7	--	--	--	--	10.5	9.5	14.0	11.0	13.0	12.0	10.5	10.0
8	--	--	--	--	8.0	7.5	16.0	11.0	13.5	12.0	10.0	9.0
9	--	--	--	--	9.0	6.0	17.0	11.0	14.0	12.0	11.0	9.0
10	--	--	--	--	7.5	6.0	16.0	12.5	14.0	12.5	10.5	9.0
11	--	--	2.5	1.5	7.0	6.0	17.5	13.0	14.0	12.5	11.0	9.5
12	--	--	3.5	1.0	8.0	7.0	14.0	12.0	15.0	12.5	11.0	10.0
13	--	--	4.5	3.5	8.5	7.5	14.0	12.5	13.5	12.5	10.0	10.0
14	--	--	4.5	3.5	8.5	7.0	13.5	12.5	13.0	12.0	10.5	9.5
15	--	--	5.5	4.5	12.0	7.5	13.0	11.5	13.5	12.0	10.5	9.5
16	--	--	5.5	4.5	9.0	8.0	12.5	11.0	14.5	12.5	10.0	9.5
17	--	--	6.0	5.0	12.0	8.0	13.5	11.5	14.0	12.0	11.0	10.0
18	--	--	5.0	4.5	11.0	8.5	16.0	12.0	14.0	12.5	10.5	10.0
19	--	--	6.0	5.0	12.5	9.0	17.5	13.0	13.0	12.0	10.5	10.0
20	--	--	4.0	3.5	14.5	8.0	15.0	13.0	14.5	11.5	10.5	10.0
21	--	--	4.5	3.5	12.5	10.0	15.0	12.5	13.5	11.5	10.5	10.0
22	--	--	4.0	3.0	11.0	9.0	16.0	12.0	12.5	11.5	10.5	10.0
23	--	--	7.5	6.5	13.0	10.0	13.0	12.0	13.0	11.5	10.5	10.0
24	--	--	6.0	5.0	10.5	8.0	15.0	12.5	13.0	11.5	10.5	9.0
25	--	--	6.5	5.0	14.5	9.0	13.0	12.5	13.5	11.5	10.0	9.0
26	--	--	5.0	4.5	12.0	10.0	13.5	12.5	13.0	11.5	10.0	9.0
27	--	--	5.5	4.5	11.0	8.0	14.0	13.0	14.0	11.5	9.0	8.0
28	--	--	5.0	4.0	10.0	10.0	14.0	13.0	13.5	10.0	9.0	8.0
29	--	--	5.5	4.0	11.0	9.5	14.5	13.0	13.0	11.5	8.0	7.0
30	--	--	4.5	3.5	11.0	9.5	15.0	13.5	12.0	11.5	8.5	7.5
31	--	--	4.0	3.0	--	--	15.0	14.0	13.5	11.5	--	--
AVG	--	--	--	--	10.5	7.5	14.0	11.5	14.0	12.0	10.5	9.5

15219000 WEST FORK OLSEN BAY CREEK NEAR CORDOVA

LOCATION.--Lat 60°45'41", long 146°10'20", temperature recorder at gaging station on left bank, 600 ft upstream from confluence with East Fork, and 21 miles northwest of Cordova.

DRAINAGE AREA.--4.78 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1970 to September 1971 (partial-record station).
Water temperatures: October 1964 to September 1971.
Sediment records: February 1970 to September 1971 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 8.0°C Aug. 13-21, 24; minimum, freezing point on many days during winter months.

EXTREMES, 1965-71.--Water temperatures: Maximum, 9.5°C Aug. 2, 1969; minimum, freezing point on many days during winter months each year.

REMARKS.--Thermograph out of chart paper Aug. 29 to Sept. 12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TEMP-ERATURE (DEG C)
JUNE							
04...	46	8	6	0	21	7.1	3.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	5.0	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
2	5.0	5.0	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
3	5.0	4.5	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
4	4.5	4.0	4.5	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
5	4.0	3.5	4.5	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
6	4.5	4.0	4.0	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
7	4.5	4.0	4.0	4.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	5.0	4.5	4.0	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
9	4.5	4.5	3.5	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
10	4.5	4.0	3.5	3.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
11	4.5	4.0	3.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	4.5	4.0	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	4.5	4.5	4.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	4.5	4.5	3.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	4.0	3.5	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	3.5	3.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	3.0	2.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.0	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	3.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	3.0	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	3.0	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	2.0	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	3.0	2.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.0	3.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	3.0	3.0	0.5	0.5	0.0	0.0	0.0	0.0	---	---	0.0	0.0
30	4.0	3.0	0.5	0.5	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	4.5	4.0	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	5.0	1.0	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0

15219000 WEST FORK OLSEN BAY CREEK NEAR CORDOVA--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	1.0	1.0	2.0	1.5	3.5	3.0	6.0	5.5	---	---
2	0.0	0.0	1.0	0.5	3.0	2.0	3.5	3.0	6.0	5.5	---	---
3	0.0	0.0	1.0	0.5	3.5	3.0	4.0	3.0	6.5	5.5	---	---
4	0.0	0.0	1.5	1.0	3.0	1.5	5.0	3.0	7.0	6.0	---	---
5	0.0	0.0	1.5	1.5	3.0	1.0	5.0	3.5	6.5	6.0	---	---
6	0.0	0.0	1.5	0.5	2.0	1.0	5.0	4.0	6.5	6.0	---	---
7	0.0	0.0	1.5	0.5	2.0	1.0	5.0	4.0	6.5	6.0	---	---
8	0.0	0.0	1.5	1.0	1.5	1.5	5.5	4.0	6.5	6.0	---	---
9	0.0	0.0	1.5	1.5	1.5	1.5	6.0	4.0	6.5	6.5	---	---
10	0.5	0.0	1.5	1.0	2.0	1.5	6.5	4.5	6.5	6.5	---	---
11	0.5	0.5	1.0	1.0	2.0	2.0	6.0	5.0	7.0	6.5	---	---
12	0.5	0.5	1.5	1.0	2.0	2.0	6.5	5.0	7.0	6.5	6.5	5.5
13	0.5	0.5	1.5	1.0	2.0	2.0	5.5	5.5	8.0	7.0	6.5	6.0
14	0.5	0.5	2.0	1.0	2.0	2.0	5.5	5.5	8.0	7.0	6.5	6.0
15	0.5	0.5	3.0	1.5	3.0	2.0	6.0	5.0	8.0	6.5	6.5	5.5
16	0.5	0.5	3.0	2.0	3.0	2.0	5.5	5.0	8.0	7.0	6.5	6.0
17	0.5	0.5	3.0	2.0	3.0	2.0	5.0	5.0	8.0	7.0	6.5	6.0
18	1.0	0.5	3.0	3.0	3.5	3.0	5.5	5.0	8.0	7.0	6.5	6.0
19	1.0	1.0	3.0	2.0	3.5	3.0	5.5	5.0	8.0	7.0	6.5	6.0
20	1.0	1.0	2.0	2.0	4.0	3.0	5.5	5.0	8.0	7.0	6.5	6.5
21	1.0	1.0	2.0	2.0	3.0	3.0	5.5	4.5	8.0	6.5	6.5	6.5
22	1.0	1.0	2.0	2.0	3.5	2.0	5.5	4.5	7.0	7.0	6.5	6.0
23	1.0	1.0	4.0	2.0	4.0	3.0	5.5	5.0	7.0	7.0	6.5	5.5
24	1.0	0.5	4.0	2.0	3.0	3.0	5.5	5.0	8.0	7.0	6.0	5.5
25	0.5	0.5	3.0	2.0	4.5	3.0	5.5	5.5	7.0	7.0	6.0	5.5
26	1.0	0.5	3.0	2.0	4.5	3.5	5.5	5.5	7.0	7.0	5.5	5.5
27	1.5	0.5	3.0	2.0	3.5	3.5	6.0	5.5	7.0	7.0	5.5	5.5
28	1.5	0.5	2.0	2.0	3.5	3.0	6.0	5.5	7.0	6.5	5.5	5.0
29	1.0	1.0	3.0	2.0	3.5	3.0	6.5	5.5	---	---	5.5	5.5
30	1.0	1.0	3.0	3.0	3.0	3.0	5.5	5.5	---	---	5.5	5.5
31	---	---	3.0	1.5	---	---	5.5	5.5	---	---	---	---
MONTH	1.5	0.0	4.0	0.5	4.5	1.0	6.5	3.0	8.0	5.5	---	---
YEAR	8.0	0.0										

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE						
04...	1200	3.5	21	46	1	.12
JULY						
24...	1545	5.5	16	147	1	.40

15266500 BEAVER CREEK NEAR KENAI

LOCATION.--Lat 60°33'50", long 151°07'03", in SE 1/4 sec.36, T.6 N., R.11 W., temperature recorder at gaging station on right bank, 25 ft upstream from culvert on Kenai-Soldotna Road, 2 miles upstream from confluence with Kenai River, and 4.5 miles east of Kenai.

DRAINAGE AREA.--51 sq mi, approximately.

PERIOD OF RECORD.--Chemical Analyses: October 1967 to September 1971 (partial-record station).
Water temperatures: July 1968 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, 14.5°C July 10 and 12; minimum, freezing point on many days during winter months.

EXTREMES, 1968-71.--Water temperatures: Maximum, 16.5°C June 14, 1969; minimum, freezing point on many days during winter months each year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIC2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SUL FATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
01...	20	28	1200	18	3.9	5.1	2.1	79	3.0	3.5
DEC.										
20...	16	26	670	18	4.9	6.0	2.3	97	.2	2.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
01...	.2	.1	106	61	0	137	8.0	20	4.5
DEC.									
20...	.1	.2	109	65	0	160	7.8	5	.0

15266500 BEAVER CREEK NEAR KENAI--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	4.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
30	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	0.5	0.5	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	4.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	0.5	0.5	4.0	4.0	7.0	6.5	9.0	8.5	8.5	8.0
2	0.0	0.0	0.5	0.5	5.0	4.0	8.0	6.0	9.5	8.5	8.0	8.0
3	0.0	0.0	0.5	0.5	6.5	5.0	9.5	7.0	10.5	8.5	8.0	8.0
4	0.0	0.0	0.5	0.5	8.0	6.0	11.0	7.0	10.5	9.0	8.0	8.0
5	0.0	0.0	2.0	0.5	9.0	6.0	11.5	8.5	10.0	8.5	8.0	8.0
6	0.0	0.0	2.0	2.0	10.5	7.0	12.0	8.5	10.0	8.5	8.0	6.5
7	0.0	0.0	3.0	2.0	10.0	7.0	11.0	9.0	11.5	10.0	6.5	6.5
8	0.0	0.0	4.5	1.5	8.0	6.0	13.0	9.0	11.5	11.5	7.0	6.5
9	0.0	0.0	4.0	2.0	7.0	6.0	14.0	10.0	13.0	11.0	7.0	6.5
10	0.0	0.0	3.0	2.0	8.0	6.0	14.5	10.0	14.0	13.0	6.5	5.5
11	0.0	0.0	2.0	2.0	9.0	7.0	14.0	10.5	14.0	13.5	6.0	5.5
12	0.0	0.0	3.0	2.0	9.0	8.0	14.5	11.0	13.5	12.0	7.0	6.0
13	0.0	0.0	3.0	3.0	10.0	7.0	14.0	10.5	12.0	11.0	6.5	6.0
14	0.0	0.0	3.5	3.0	9.5	7.0	11.5	9.0	11.5	11.0	6.5	6.0
15	0.0	0.0	3.5	3.0	7.0	6.0	10.5	9.5	11.5	11.0	6.0	5.5
16	0.0	0.0	4.0	3.0	6.5	5.5	10.5	8.5	11.0	10.5	5.5	5.0
17	0.0	0.0	4.0	3.0	7.0	6.5	10.0	9.0	11.0	11.0	5.0	5.0
18	0.0	0.0	4.0	3.0	8.0	6.0	10.0	9.0	11.0	11.0	5.0	4.5
19	0.0	0.0	4.5	3.5	8.0	7.0	9.5	8.5	11.0	11.0	5.0	5.0
20	0.0	0.0	5.0	4.0	9.5	6.5	10.0	8.5	11.0	11.0	5.5	5.0
21	0.0	0.0	5.0	4.0	9.5	8.0	9.5	8.0	11.5	10.5	6.0	5.5
22	0.0	0.0	5.0	4.5	9.0	6.5	8.5	8.0	11.0	9.5	6.0	6.0
23	0.0	0.0	5.5	4.0	12.0	8.5	9.0	7.0	10.5	9.5	6.0	6.0
24	0.0	0.0	6.5	4.0	13.0	10.0	9.0	8.5	10.0	9.5	6.0	5.0
25	0.0	0.0	6.5	5.5	13.5	9.5	9.0	8.5	9.5	9.5	5.0	4.5
26	0.0	0.0	6.5	5.5	13.5	10.0	9.0	8.0	9.5	9.0	4.5	3.5
27	0.0	0.0	6.0	5.0	12.0	10.0	8.5	7.0	9.0	8.5	3.5	3.0
28	0.0	0.0	5.0	4.0	11.0	8.5	8.0	6.5	9.0	8.0	3.0	3.0
29	0.5	0.0	5.5	4.0	10.5	8.5	8.5	7.0	8.0	7.0	3.5	3.0
30	0.5	0.5	5.5	5.0	8.5	7.0	8.5	8.0	7.0	7.0	4.0	3.5
31	---	---	5.0	4.0	---	---	8.5	7.0	8.5	7.0	---	---
MONTH	0.5	0.0	6.5	0.5	13.5	4.0	14.5	6.0	14.0	7.0	8.5	3.0
YEAR	14.5	0.0										

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE

LOCATION.--Lat 61°13'47", long 149°49'38", in SW 1/4 sec. 9, T.13 N., R.3 W., temperature recorder on left bank 200 ft upstream from west boundary of Elmendorf Air Force Base, 0.1 mile downstream from power plant diversion and return, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--115 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1971.

EXTREMES, 1970-71.--Water temperatures: Maximum, not determined; minimum not determined.

REMARKS.--Temperature records not published Oct. 19, 1970 to May 17, 1971; groundwater seepage into well affected temperatures. No records available for Aug. 10 to Sept. 30; station destroyed by high water Aug. 9. Miscellaneous chemical data published for 1971 water year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICARBONATE (HCO3) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
JUNE 29...	42	46	12	94	7.7	5.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	1.0	---	---	---	---	---	---	---	---	---
2	---	---	---	---	6.0	---	---	---	12.0	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	7.0	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	11.0	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	6.0	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	17.0	---
18	---	---	---	---	---	---	7.0	---	---	---	---	---
19	6.0	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	8.5	6.0	7.0	5.0	8.0	6.0	---	---
2	---	---	---	---	10.5	6.0	8.0	5.0	7.5	6.0	---	---
3	---	---	---	---	15.5	6.5	8.0	5.5	9.0	5.5	---	---
4	---	---	---	---	13.0	7.0	10.5	6.0	9.0	6.0	---	---
5	---	---	---	---	13.0	7.0	10.5	6.0	8.5	6.5	---	---
6	---	---	---	---	12.5	6.5	10.5	6.0	7.0	6.0	---	---
7	---	---	---	---	9.0	5.5	9.5	6.0	8.0	6.0	---	---
8	---	---	---	---	6.0	4.5	11.0	6.0	7.0	6.0	8.0	---
9	---	---	---	---	8.5	4.0	11.0	6.0	9.0	---	---	---
10	---	---	---	---	7.0	4.0	11.0	6.0	---	---	6.0	---
11	---	---	---	---	7.0	4.5	10.0	6.5	---	---	---	---
12	---	---	---	---	5.0	4.5	9.0	6.5	---	---	---	---
13	---	---	---	---	7.0	4.5	9.0	7.0	---	---	---	---
14	---	---	---	---	5.5	4.5	8.5	5.5	---	---	---	---
15	---	---	---	---	6.5	4.5	8.0	5.5	---	---	---	---
16	---	---	---	---	6.5	4.0	8.5	6.0	---	---	---	---
17	---	---	10.5	---	6.0	4.5	8.0	6.0	---	---	---	---
18	---	---	13.5	6.0	7.5	4.5	7.5	5.5	---	---	---	---
19	---	---	13.5	4.5	7.5	4.5	8.0	6.0	---	---	---	---
20	---	---	10.5	4.0	9.5	4.5	7.5	6.0	---	---	---	---
21	---	---	14.0	5.0	7.0	4.5	7.5	4.5	---	---	---	---
22	---	---	10.5	5.5	10.0	4.0	7.0	5.5	---	---	---	---
23	---	---	10.5	5.5	10.5	5.0	8.0	5.5	---	---	---	---
24	---	---	15.5	6.0	10.0	5.0	7.0	6.0	---	---	---	---
25	---	---	12.0	5.5	10.0	4.5	7.0	6.0	---	---	---	---
26	---	---	10.0	6.0	9.5	4.5	8.0	6.0	---	---	---	---
27	---	---	11.5	6.5	8.5	4.5	7.0	5.0	---	---	---	---
28	---	---	11.5	6.5	7.0	5.5	7.0	4.5	---	---	---	---
29	---	---	10.0	6.5	6.0	5.5	8.0	5.0	---	---	---	---
30	---	---	10.0	6.5	6.5	5.0	8.0	6.0	---	---	---	---
31	---	---	8.0	6.0	---	---	8.5	6.0	---	---	---	---
MONTH	---	---	---	---	15.5	4.0	11.0	4.5	---	---	---	---

15277100 EAGLE RIVER AT EAGLE RIVER

LOCATION.--Lat 61°18'28", long 149°33'32", in NW 1/4 sec.13, T.14 N., R.2 W., at gaging station near center of cable (station 50), 0.2 mile upstream from Eagle River campground, 0.6 mile upstream from Glenn Highway crossing, and 1.0 mile south of Eagle River.

DRAINAGE AREA.--192 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: March 1967 to September 1971 (partial-record station).
Water temperatures: November 1967 to September 1971.
Sediment records: November 1966 to September 1967 (partial-record station), October 1967 to September 1971.

EXTREMES, 1970-71.--Specific conductance: Minimum daily, 91 micromhos July 21.
Water temperatures: Maximum, 12°C June 4; minimum, freezing point on many days during winter months.
Sediment concentrations: Maximum daily, 1,810 mg/l July 13.
Sediment loads: Maximum daily, 15,300 tons July 14.

EXTREMES, 1967-71.--Water temperatures (1968-71): Maximum, 14°C June 14, 1969; minimum, freezing point during winter months.
Sediment concentrations: Maximum daily, 1,810 mg/l July 13, 1971; minimum daily, 3 mg/l (estimated), on many days during January to March in 1969.
Sediment loads: Maximum daily, 15,300 tons July 14, 1971; minimum daily, 0.24 ton on many days during January and February in 1969.

REMARKS.--Flow affected by ice during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIC2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SUL FATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
15...	168	4.1	40	29	4.5	2.9	.4	81	21	1.5
MAR.										
10...	42	--	--	--	--	--	--	102	--	--
MAY										
19...	120	4.5	100	31	4.8	3.5	.7	91	25	1.8
JUNE										
21...	715	--	--	--	--	--	--	63	--	--

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (ND3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
15...	.0	1.2	105	92	26	186	8.0	5	.5
MAR.									
10...	--	--	--	113	29	228	7.9	--	.0
MAY									
19...	.1	1.6	118	98	23	195	7.8	5	--
JUNE									
21...	--	--	--	64	12	133	8.0	--	6.5

15277100 EAGLE RIVER AT EAGLE RIVER--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	121	---	---
2	---	---	---	---	---	---	---	---	214	124	---	---
3	---	---	---	---	---	---	---	---	214	124	---	---
4	---	---	---	---	---	---	---	---	214	---	---	---
5	---	---	---	---	---	---	---	---	214	---	---	---
6	---	---	---	---	---	---	---	---	214	---	---	---
7	---	---	---	---	---	---	---	---	171	111	---	---
8	---	---	---	---	---	---	---	---	168	101	---	---
9	---	---	---	---	---	---	---	---	168	101	---	---
10	---	---	---	---	---	---	---	---	147	99	---	---
11	---	---	---	---	---	---	---	---	147	---	---	---
12	---	---	---	---	---	---	---	---	147	94	---	---
13	---	---	---	---	---	---	---	---	147	94	---	---
14	---	---	---	---	---	---	---	---	147	92	---	---
15	---	---	---	---	---	---	---	---	147	92	---	---
16	---	---	---	---	---	---	---	---	147	92	---	---
17	---	---	---	---	---	---	---	---	147	92	---	---
18	---	---	---	---	---	---	---	---	147	92	---	---
19	---	---	---	---	---	---	---	---	---	102	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	147	91	---	---
22	---	---	---	---	---	---	---	---	132	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	113	---	---	---
30	---	---	---	---	---	---	---	---	[illegible]	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	136											

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	6.0	---	---
2	---	---	---	---	---	---	---	---	5.5	7.0	---	---
3	---	---	---	---	---	---	---	---	10.0	7.0	---	---
4	---	---	---	---	---	---	---	---	12.0	---	---	---
5	---	---	---	---	---	---	---	---	11.5	---	---	---
6	---	---	---	---	---	---	---	---	10.0	---	---	---
7	---	---	---	---	---	---	---	---	9.0	9.0	---	---
8	---	---	---	---	---	---	---	---	6.0	9.5	---	---
9	---	---	---	---	---	---	---	---	8.5	10.5	---	---
10	---	---	---	---	---	---	---	---	9.0	10.0	---	---
11	---	---	---	---	---	---	---	---	7.0	---	---	---
12	---	---	---	---	---	---	---	---	5.5	9.0	---	---
13	---	---	---	---	---	---	---	---	5.5	8.5	---	---
14	---	---	---	---	---	---	---	---	5.5	8.5	---	---
15	---	---	---	---	---	---	---	---	7.0	7.5	---	---
16	---	---	---	---	---	---	---	---	7.0	8.5	---	---
17	---	---	---	---	---	---	---	---	6.5	8.0	---	---
18	---	---	---	---	---	---	---	---	7.5	7.0	---	---
19	---	---	---	---	---	---	---	---	---	8.0	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	6.0	7.0	---	---
22	---	---	---	---	---	---	---	---	6.0	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	5.5	---	---	---
30	---	---	---	---	---	---	---	---	6.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

ALASKA WEST OF LONGITUDE 141°

15277100 EAGLE RIVER AT EAGLE RIVER--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							--	--	--
2							139	36	14
3							129	38	13
4							143	45	17
5							169	140	64
6							243	325	213
7							312	295	249
8							382	325	335
9							462	365	455
10							656	400	708
11							680	268	492
12							638	158	272
13							674	155	282
14							740	200	400
15							838	174	394
16							734	110	218
17							626	87	147
18							535	71	103
19							520	72	101
20							545	100	147
21							674	136	247
22							686	90	167
23							728	110	216
24							971	140	367
25							1400	190	718
26							1640	300	1330
27							1820	260	1280
28							1670	240	1080
29							1470	220	873
30							1370	198	732
31							--	--	--
TOTAL							21594	--	11634

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1150	168	522						
2	1010	148	404						
3	922	128	319						
4	901	120	292						
5	1030	120	334						
6	1210	130	425						
7	1390	175	657						
8	1500	318	1290						
9	1650	405	1800						
10	1920	655	3400						
11	2180	820	4830						
12	2410	725	4720						
13	2950	1810	14400						
14	3430	1650	15300						
15	2940	950	7540						
16	2450	640	4230						
17	2090	500	2820						
18	1950	400	2110						
19	1780	325	1560						
20	2090	365	2060						
21	2030	350	1920						
22	--	--	--						
23	--	--	--						
24	--	--	--						
25	--	--	--						
26	--	--	--						
27	--	--	--						
28	--	--	--						
29	--	--	--						
30	--	--	--						
31	--	--	--						
TOTAL	38983	--	70933						

15277100 EAGLE RIVER AT EAGLE RIVER--Continued

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC CONO-UCTANCE (MICRO-MHOS)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
OCT.								
15...	1130	.5	190	168	6	2.7	--	--
MAR.								
10...	1230	.0	228	42	9	1.0	--	--
MAY								
19...	1300	4.0	210	120	193	63	27	37
JUNE								
21...	1330	6.5	137	715	145	280	--	--
JULY								
14...	1130	6.0	103	3500	1440	13600	33	43
AUG.								
14...	1130	6.0	97	3050	495	4080	32	39

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.								
15...	--	--	--	--	--	--	--	--
MAR.								
10...	--	--	--	--	--	--	--	--
MAY								
19...	--	60	--	88	97	98	100	--
JUNE								
21...	--	--	--	77	88	98	100	--
JULY								
14...	48	58	68	81	91	97	100	--
AUG.								
14...	46	60	70	85	93	97	99	100

15457800 HESS CREEK NEAR LIVENGOOD

LOCATION.--Lat 65°39'55", long 149°05'47", temperature recorder near midspan on downstream side of bridge on TAPS Haul road, 22 miles from Elliott Highway, and 18.6 miles northwest of Livengood.

DRAINAGE AREA.--662 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971 (partial-record station).
Water temperatures: July to September 1971.
Sediment records: July 1970 to September 1971 (partial-record station).

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
NOV.										
17...	--	7.4	--	970	18	5.3	1.6	1.3	67	9.9
JUNE										
14...	119	5.5	--	610	14	4.3	1.5	.9	51	8.2
14...	119	5.6	160	--	14	4.2	1.5	.9	52	9.0
JULY										
15...	2410	4.8	700	--	10	2.8	1.0	.3	30	7.8
16...	1180	5.9	580	--	11	3.1	1.1	.3	35	8.2
AUG.										
10...	--	5.7	290	--	9.8	2.6	.9	.5	32	7.4
10...	--	6.0	70	--	10	2.9	1.1	1.6	34	8.2
11...	4350	5.6	--	820	10	2.8	.9	.3	30	7.4
22...	--	--	--	--	18	4.6	1.3	.3	--	1.8
SEP.										
14...	212	7.2	870	--	16	4.6	1.4	.4	55	8.6

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
NOV.										
17...	.8	.4	.5	79	66	11	132	7.6	40	--
JUNE										
14...	.5	.1	.3	61	52	10	104	7.6	60	10.5
14...	.8	.1	.1	62	53	10	107	7.7	60	--
JULY										
15...	1.5	.3	.8	44	36	11	65	7.2	140	7.0
16...	2.8	.3	.5	50	40	11	72	7.3	130	8.0
AUG.										
10...	1.2	.3	.9	45	35	9	62	7.3	110	--
10...	1.0	.3	1.5	50	38	10	72	7.3	140	--
11...	1.5	.3	1.3	46	37	12	64	6.6	110	--
22...	--	--	.0	--	--	--	--	--	--	--
SEP.										
14...	1.2	.2	.4	67	60	15	109	7.4	100	4.5

15457800 HESS CREEK NEAR LIVENGOOD--Continued

TEMPERATURE (°C) OF WATER, JULY TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	11.0	10.5	9.0	8.0
2	---	---	---	---	---	---	---	---	10.5	10.0	8.5	7.0
3	---	---	---	---	---	---	---	---	10.5	9.0	7.0	6.5
4	---	---	---	---	---	---	---	---	11.5	9.5	6.5	5.5
5	---	---	---	---	---	---	---	---	12.0	10.0	5.5	5.0
6	---	---	---	---	---	---	---	---	12.0	10.0	5.5	5.0
7	---	---	---	---	---	---	---	---	11.5	10.5	5.5	5.0
8	---	---	---	---	---	---	---	---	11.5	11.0	5.5	5.0
9	---	---	---	---	---	---	---	---	11.5	10.0	5.5	4.5
10	---	---	---	---	---	---	---	---	10.0	7.0	5.5	5.0
11	---	---	---	---	---	---	---	---	9.0	6.5	5.5	4.5
12	---	---	---	---	---	---	---	---	9.5	8.0	5.5	4.0
13	---	---	---	---	---	---	---	---	10.0	8.5	5.0	3.5
14	---	---	---	---	---	---	---	---	10.5	8.5	4.5	3.5
15	---	---	---	---	---	---	---	---	10.5	8.5	5.0	3.5
16	---	---	---	---	---	---	10.0	8.0	10.5	8.5	5.5	4.5
17	---	---	---	---	---	---	12.0	9.5	11.0	9.5	6.0	5.5
18	---	---	---	---	---	---	14.5	11.0	11.5	10.0	6.0	5.0
19	---	---	---	---	---	---	14.5	13.5	11.5	11.0	5.5	4.0
20	---	---	---	---	---	---	14.5	12.0	11.5	11.0	5.5	4.5
21	---	---	---	---	---	---	15.5	13.5	11.5	10.0	5.5	4.5
22	---	---	---	---	---	---	15.0	13.5	10.5	9.5	5.0	4.5
23	---	---	---	---	---	---	15.0	12.0	10.5	10.0	5.0	3.5
24	---	---	---	---	---	---	15.0	13.5	11.5	10.0	5.0	4.0
25	---	---	---	---	---	---	15.5	14.0	11.5	11.0	5.5	5.0
26	---	---	---	---	---	---	15.5	14.0	11.5	11.0	5.5	5.0
27	---	---	---	---	---	---	15.5	13.5	11.5	10.5	5.0	4.0
28	---	---	---	---	---	---	15.0	13.5	11.5	10.0	5.0	4.0
29	---	---	---	---	---	---	13.0	10.0	11.5	10.0	4.5	2.0
30	---	---	---	---	---	---	11.5	10.5	11.5	10.0	2.0	1.5
31	---	---	---	---	---	---	11.0	10.5	11.5	9.5	---	---
MONTH	---	---	---	---	---	---	---	---	12.0	6.5	9.0	1.5

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
JULY								
15...	1330	7.0	65	2410	170	1110	11	21
16...	1330	8.0	72	1180	79	252	--	--
AUG.								
11...	2200	8.0	64	4350	368	4320	10	17
SEP.								
14...	1420	4.5	109	212	3	1.7	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
JULY										
15...	11	21	--	53	--	91	98	99	100	--
16...	--	--	--	--	--	--	--	--	--	--
AUG.										
11...	10	17	23	45	72	86*	92*	96*	99*	100*
SEP.										
14...	--	--	--	--	--	--	--	--	--	--

* Sieve analysis.

15514000 CHENA RIVER AT FAIRBANKS

LOCATION.--Lat 64°50'48", long 147°42'21", in NW 1/4 sec.11, T.1 S., R.1 W., 0.15 mile downstream from gaging station near center of bridge on Steese Highway (U.S. Highway 97) in Fairbanks, 0.12 mile upstream from Noyes Slough, 11 miles upstream from mouth, and 11 miles downstream from Chena Slough.

DRAINAGE AREA.--1,980 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1953-55, 1957, 1958, 1964, 1967-71 (partial-record station).
Water temperatures: May to September 1953, May 1962 to September 1963, October 1964 to November 1965, July 1969 to July 1971.
Sediment records: January 1954 to September 1955, May 1962 to June 1971.

EXTREMES, 1970-71.--Specific conductance: Minimum daily, 73 micromhos May 17.
Water temperatures: Maximum, 16.5°C July 27; minimum, freezing point on many days during winter period.
Sediment concentrations: Maximum daily, 488 mg/l May 14; minimum daily, 4 mg/l Dec. 19, 1970 to Apr. 15, 1971.
Sediment loads: Maximum daily, 12,300 tons May 15; minimum daily, 3.3 tons Mar. 17 to Apr. 15.

EXTREMES, 1962-71.--Specific conductance (1968-71): Minimum daily, 73 micromhos May 17, 1971.
Water temperatures (1962-65, 1969-71): Maximum, 19°C June 17, 1962; minimum, freezing point on many days during winter period.
Sediment concentrations: Maximum daily, 549 mg/l May 24, 1967; minimum daily (1967-71), 1 mg/l Sept. 14, 1969, June 15-16, 1970.
Sediment loads: Maximum daily, 80,200 tons (estimated) Aug. 15, 1967; minimum daily (1967-71), 1.9 tons Mar. 21-28, 1970.

REMARKS.--Flow affected by ice during winter months. Miscellaneous chemical data published for water years 1953, 1955, 1958, 1964, 1968-71 and sediment data for water years 1955, 1962-71.

REVISIONS.--Revised figures for sediment concentration and load for water year 1967 superseding those previously published are given herewith:

DATE	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	DATE	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)
8-13-67	360	10,400	8-19-67	270	18,600
8-14-67	520	28,800	8-20-67	220	10,700
8-15-67	460	80,200	8-21-67	170	5,880
8-16-67	430	66,900	8-22-67	130	3,620
8-17-67	380	47,800	8-23-67	130	3,140
8-18-67	320	31,200	8-24-67	120	2,630

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT TAKEN FROM SUSPENDED-SEDIMENT SAMPLES)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	178	---	---	---	---	---	---	---	91	---	---	---
2	185	---	---	---	---	---	---	---	91	---	---	---
3	185	---	---	---	---	---	---	---	89	---	---	---
4	185	---	---	---	---	---	---	---	91	---	---	---
5	185	---	---	---	---	---	---	---	113	---	---	---
6	185	---	---	---	---	---	---	107	113	---	---	---
7	191	---	---	---	---	---	---	---	103	---	---	---
8	191	---	---	---	---	---	---	---	99	---	---	---
9	191	---	---	---	---	---	---	---	99	---	---	---
10	185	---	205	---	---	---	---	---	109	---	---	---
11	---	---	---	---	---	---	---	---	115	---	---	---
12	193	---	---	---	---	---	---	---	115	---	---	---
13	193	---	---	---	---	---	221	---	115	---	---	---
14	193	---	---	---	---	---	---	---	136	---	---	---
15	193	---	---	---	---	---	---	---	136	---	---	---
16	193	---	---	---	---	---	---	---	136	---	---	---
17	---	---	---	---	---	---	---	73	144	---	---	---
18	---	---	---	---	---	---	---	---	144	---	---	---
19	---	---	---	---	---	---	---	---	144	---	---	---
20	---	---	---	209	---	---	---	---	147	---	---	---
21	---	---	---	---	---	---	220	---	150	---	---	---
22	---	---	---	---	215	---	---	---	---	---	---	---
23	---	---	201	---	---	220	210	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	196	---	---	---	---	---
27	---	---	---	---	---	---	205	---	---	---	---	---
28	---	---	---	---	---	---	205	---	---	---	---	---
29	---	---	---	---	---	---	205	---	---	---	---	---
30	---	---	---	---	---	---	196	82	---	---	---	---
31	---	---	---	---	---	---	---	82	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

ALASKA WEST OF LONGITUDE 141°

15514000 CHENA RIVER AT FAIRBANKS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
OCT.										
16...	980	8.3	40	--	26	6.0	3.1	1.2	78	17
NOV.										
13...	585	--	--	--	--	--	--	--	104	--
DEC.										
10...	438	--	--	--	--	--	--	--	106	--
23...	387	--	--	--	--	--	--	--	104	--
JAN.										
20...	404	--	--	--	--	--	--	--	107	--
FEB.										
22...	347	--	--	--	--	--	--	--	114	--
MAR.										
23...	309	16	--	420	32	7.2	4.2	1.8	115	17
APR.										
13...	312	--	--	--	--	--	--	--	116	--
26...	466	--	--	--	--	--	--	--	102	--
30...	599	--	--	--	--	--	--	--	98	--
MAY										
06...	2670	5.0	530	--	14	3.9	1.5	1.7	48	13
17...	8530	--	--	--	--	--	--	--	32	--
AUG.										
08...	--	--	--	--	--	--	--	--	72	--

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-CTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.										
16...	7.0	.1	1.9	109	90	26	193	8.0	--	.0
NOV.										
13...	--	--	--	--	100	15	203	7.4	--	.0
DEC.										
10...	--	--	--	--	119	32	205	8.1	--	.0
23...	--	--	--	--	109	24	201	7.9	--	.0
JAN.										
20...	--	--	--	--	103	15	209	7.5	--	1.5
FEB.										
22...	--	--	--	--	112	18	215	7.0	--	4.0
MAR.										
23...	3.2	.1	.8	141	110	16	220	7.0	0	.5
APR.										
13...	--	--	--	--	109	14	221	7.0	--	--
26...	--	--	--	--	96	12	196	7.0	--	1.0
30...	--	--	--	--	96	16	196	7.0	--	.5
MAY										
06...	2.8	.3	.5	67	52	13	107	6.7	40	1.5
17...	--	--	--	--	46	20	73	6.9	--	2.0
AUG.										
08...	--	--	--	--	80	21	153	7.7	--	--

15514000 CHENA RIVER AT FAIRBANKS--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	0.0	0.0
31	0.0	0.0	---	---	0.0	0.0	0.0	0.0	---	---	0.0	0.0
MONTH	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	0.0	0.0	0.0	0.0	7.5	6.5	11.5	10.5	---	---	---	---
2	0.0	0.0	0.0	0.0	7.5	7.0	11.0	9.5	---	---	---	---
3	0.0	0.0	0.0	0.0	7.0	6.0	12.0	10.5	---	---	---	---
4	0.0	0.0	1.0	0.0	7.5	6.0	12.5	11.5	---	---	---	---
5	0.0	0.0	0.0	0.0	9.0	7.0	14.0	12.0	---	---	---	---
6	0.0	0.0	1.5	0.0	10.5	8.5	14.5	13.5	---	---	---	---
7	0.0	0.0	1.5	1.0	11.0	10.0	15.0	13.5	---	---	---	---
8	0.0	0.0	1.5	1.0	11.0	10.0	15.5	14.5	---	---	---	---
9	0.0	0.0	2.0	1.0	11.0	10.0	15.5	14.0	---	---	---	---
10	0.0	0.0	3.0	1.0	11.0	10.0	15.5	14.5	---	---	---	---
11	0.0	0.0	3.5	2.0	11.5	10.5	15.5	14.5	---	---	---	---
12	0.0	0.0	3.5	2.0	11.5	10.5	14.5	13.5	---	---	---	---
13	0.0	0.0	3.5	2.0	10.5	9.5	13.5	12.5	---	---	---	---
14	0.0	0.0	2.5	2.0	10.0	9.0	---	---	---	---	---	---
15	0.0	0.0	2.5	2.0	9.5	8.5	---	---	---	---	---	---
16	0.0	0.0	3.0	2.0	10.5	9.0	---	---	---	---	---	---
17	0.0	0.0	3.5	2.0	11.5	10.0	---	---	---	---	---	---
18	0.0	0.0	4.5	3.0	12.0	11.0	---	---	---	---	---	---
19	0.0	0.0	4.5	3.5	12.0	11.0	---	---	---	---	---	---
20	0.0	0.0	4.5	3.5	12.0	11.5	---	---	---	---	---	---
21	0.0	0.0	4.0	3.0	12.5	11.5	---	---	---	---	---	---
22	0.0	0.0	4.5	3.5	13.0	11.5	---	---	---	---	---	---
23	0.0	0.0	4.5	4.0	14.5	13.0	---	---	---	---	---	---
24	0.0	0.0	4.5	4.5	14.5	13.0	---	---	---	---	---	---
25	0.0	0.0	5.5	4.5	15.0	14.0	---	---	---	---	---	---
26	0.0	0.0	5.5	4.5	15.0	14.0	---	---	---	---	---	---
27	0.0	0.0	5.5	5.0	15.5	14.0	---	---	---	---	---	---
28	0.0	0.0	5.5	5.0	15.5	13.5	---	---	---	---	---	---
29	0.0	0.0	5.5	5.5	13.5	13.0	---	---	---	---	---	---
30	0.0	0.0	5.5	5.0	13.0	11.5	---	---	---	---	---	---
31	---	---	6.5	5.5	---	---	---	---	---	---	---	---
MONTH	0.0	0.0	6.5	0.0	15.5	6.0	---	---	---	---	---	---

15514000 CHENA RIVER AT FAIRBANKS--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1420	6	23	700		17	480	--	7.8
2	1370	7	26	680		17	480	--	7.8
3	1330	7	25	680		17	470	--	7.6
4	1270	5	17	660		16	470	--	7.6
5	1140	9	28	660		16	460	--	7.5
6	1120	10	30	640		14	460	--	7.5
7	1100	7	21	640		14	450	--	7.3
8	1100	5	15	620		13	450	--	7.3
9	1100	6	18	620		13	440	--	7.1
10	1050	6	17	620		13	440	6	7.1
11	1050	7	20	600		13	430	--	7.0
12	1050	11	31	600		13	430	--	7.0
13	1000	20	54	600		13	420	--	6.8
14	1000	10	27	580		13	420	--	5.7
15	1000	18	49	580		13	410	--	5.5
16	980	15	40	580		11	410	--	5.5
17	960	--	36	560		11	400	--	5.4
18	940	--	33	560		11	400	--	5.4
19	920	--	30	540		10	400	--	4.3
20	900	--	27	540		10	400	--	4.3
21	880	--	26	540		10	390	--	4.2
22	860	--	26	520		9.8	390	--	4.2
23	840	--	25	520		9.8	390	4	4.2
24	820	--	24	520		9.8	390	--	4.2
25	800	--	24	520		9.8	390	--	4.2
26	780	--	21	520		8.4	390	--	4.2
27	760	--	21	500		8.1	390	--	4.2
28	740	--	20	500		8.1	390	--	4.2
29	740	--	20	500		8.1	390	--	4.2
30	720	--	19	500		8.1	390	--	4.2
31	720	--	19	--	--	--	390	--	4.2
TOTAL	30460	--	812	17400	--	358.0	13010	--	177.7

15514000 CHENA RIVER AT FAIRBANKS--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	400		4.3	400	--	4.3	330		3.6
2	400		4.3	400	--	4.3	330		3.6
3	400		4.3	400	--	4.3	320		3.5
4	400		4.3	400	--	4.3	320		3.5
5	400		4.3	400	--	4.3	320		3.5
6	400		4.3	400	--	4.3	320		3.5
7	400		4.3	390	--	4.2	320		3.5
8	400		4.3	390	--	4.2	320		3.5
9	400		4.3	380	--	4.1	320		3.5
10	400		4.3	380	--	4.1	320		3.5
11	400		4.3	370	--	4.0	320		3.5
12	400		4.3	370	--	4.0	320		3.5
13	400		4.3	360	--	3.9	320		3.5
14	400		4.3	360	--	3.9	320		3.5
15	400		4.3	360	--	3.9	320		3.5
16	400		4.3	350	--	3.8	320		3.5
17	400		4.3	350	--	3.8	310		3.3
18	400		4.3	350	--	3.8	310		3.3
19	400		4.3	350	--	3.8	310		3.3
20	400		4.3	350	--	3.8	310		3.3
21	400		4.3	350	--	3.8	310		3.3
22	400		4.3	350	4	3.8	310		3.3
23	400		4.3	340	--	3.7	310		3.3
24	400		4.3	340	--	3.7	310		3.3
25	400		4.3	330	--	3.6	310		3.3
26	400		4.3	330	--	3.6	310		3.3
27	400		4.3	330	--	3.6	310		3.3
28	400		4.3	330	--	3.6	310		3.3
29	400		4.3	--	--	--	310		3.3
30	400		4.3	--	--	--	310		3.3
31	400		4.3	--	--	--	310		3.3
TOTAL	12400	--	133.3	10210	--	110.5	9790	--	105.7

ALASKA WEST OF LONGITUDE 141°

15514000 CHENA RIVER AT FAIRBANKS--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	310	--	3.3	700	8	15	8290	190	4250
2	310	--	3.3	800	10	22	8050	172	3740
3	310	--	3.3	1000	13	35	7920	150	3210
4	310	--	3.3	1240	19	64	6280	115	1950
5	310	--	3.3	1680	33	150	5450	99	1460
6	310	--	3.3	2500	60	405	5480	108	1600
7	310	--	3.3	3420	109	1010	6040	139	2270
8	310	--	3.3	4030	95	1030	6340	141	2410
9	310	--	3.3	3900	68	716	6000	102	1650
10	310	--	3.3	3570	58	559	5250	67	950
11	310	--	3.3	3240	51	446	4870	69	907
12	310	--	3.3	3820	90	928	4620	68	848
13	310	4	3.3	5380	255	3700	4080	59	650
14	310	--	3.3	7990	488	10500	3590	44	426
15	310	--	3.3	9910	459	12300	3280	35	310
16	320	--	4.3	9080	304	7450	3040	25	205
17	320	--	4.3	8510	268	6160	2850	25	192
18	320	--	5.2	9240	281	7010	2720	28	206
19	320	--	5.2	9700	290	7600	2590	25	175
20	320	--	5.2	10900	346	10200	2440	25	165
21	330	7	6.2	11300	308	9400	2370	22	141
22	340	6	5.5	10400	262	7360	--	--	--
23	360	6	5.8	9820	255	6760	--	--	--
24	390	6	6.3	9140	222	5480	--	--	--
25	420	6	6.8	8500	196	4500	--	--	--
26	460	6	7.5	8750	228	5390	--	--	--
27	500	6	8.1	9520	281	7220	--	--	--
28	520	6	8.4	10100	287	7830	--	--	--
29	560	5	7.6	10200	248	6830	--	--	--
30	600	6	9.7	9760	243	6400	--	--	--
31	--	--	--	9770	233	6150	--	--	--
TOTAL	10730	--	145.6	207870	--	143620	101550	--	27715

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 413420

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 173177.8

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.							
16...	1100	.0	193	--	980	8	21
DEC.							
10...	1430	.0	205	--	438	6	7.1
23...	1100	.0	201	--	387	4	4.2
JAN.							
20...	1200	1.5	209	--	404	5	5.5
FEB.							
22...	--	4.0	215	--	347	4	3.7
MAR.							
23...	1600	.5	220	--	309	6	5.0
APR.							
13...	1430	--	221	--	312	4	3.4
26...	1030	1.0	196	--	466	8	10
30...	1030	.5	196	--	599	6	9.7
MAY							
06...	1700	--	107	--	2670	66	476
17...	1200	2.0	73	--	8530	239	5500
JULY							
20...	--	13.5	--	0	2630	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
OCT.						
16...	--	--	--	--	--	--
DEC.						
10...	--	--	--	--	--	--
23...	--	--	--	--	--	--
JAN.						
20...	--	--	--	--	--	--
FEB.						
22...	--	--	--	--	--	--
MAR.						
23...	--	--	--	--	--	--
APR.						
13...	--	--	--	--	--	--
26...	--	--	--	--	--	--
30...	--	--	--	--	--	--
MAY						
06...	--	--	--	--	--	--
17...	6	10	26	75	95	100
JULY						
20...	--	--	--	--	--	--

15564800 YUKON RIVER AT RUBY
(International Hydrological Decade River Station)

LOCATION.--Lat 64°44'28", long 155°29'22", at gaging station on left bank at Ruby, 300 ft downstream from Ruby Creek, 1.5 miles downstream from Melozitna River, and 2.5 miles upstream from Ruby Slough.

DRAINAGE AREA.--259,000 so mi, approximately.

PERIOD OF RECORD.--Chemical analyses: June 1966 to September 1971.
Water temperatures: June 1966 to September 1967, August 1969 to September 1971.
Sediment records: September 1967 to September 1971 (partial-record station).

EXTREMES, 1970-71.--Dissolved solids: Maximum, 169 mg/l Mar. 19; minimum, 83 mg/l May 31 to June 14.
Hardness: Maximum, 146 mg/l Mar. 19; minimum, 72 mg/l May 31 to June 14.
Specific conductance: Maximum, 297 micromhos Aug. 12; minimum daily, 123 micromhos June 4.
Water temperatures: Maximum, 18.5°C June 26-28.

EXTREMES, 1966-71: Dissolved solids (1967-71): Maximum, 169 mg/l Mar. 8, 1970, Mar. 19, 1971; minimum, 83 mg/l May 31 to June 14, 1971.
Hardness (1967-71): Maximum, 146 mg/l Mar. 19, 1971; minimum, 72 mg/l May 31 to June 14, 1971.
Specific conductance (1967-71): Maximum, 315 micromhos Aug. 1-16, 1967; minimum, 123 micromhos June 4, 1971.
Water temperatures (1966, 1967, 1970-71): Maximum, 18.5°C June 26-28, 1971.

REMARKS.--River frozen over during period October to May. Miscellaneous chemical data published for water years 1967-71 and sediment data for water years 1967-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	142	205	218	250
2	---	---	---	---	---	---	---	---	147	191	241	234
3	---	---	---	---	---	---	---	---	131	203	258	228
4	---	---	---	---	---	---	---	---	123	202	247	224
5	---	---	---	---	---	---	---	---	135	206	237	240
6	---	---	---	---	---	---	---	---	132	203	243	224
7	---	---	---	---	---	---	---	---	130	210	301	231
8	---	---	---	---	---	---	---	---	134	205	252	219
9	---	---	---	---	---	---	---	---	143	213	261	222
10	---	---	---	---	---	---	---	---	145	209	227	223
11	---	---	---	---	---	---	---	---	146	204	232	243
12	---	---	---	---	---	---	---	---	147	206	297	220
13	---	---	---	---	---	---	---	---	156	213	219	218
14	---	---	---	---	---	---	---	---	155	205	237	217
15	---	---	---	---	---	---	---	---	165	208	220	220
16	---	---	---	---	---	---	---	---	172	228	233	255
17	---	---	---	---	---	---	---	---	155	217	240	235
18	---	---	---	---	---	---	---	---	161	232	241	220
19	---	---	---	---	---	---	---	---	164	240	230	219
20	---	---	---	---	---	---	---	---	168	240	234	223
21	---	---	---	---	---	---	---	---	176	242	220	223
22	---	---	---	---	---	---	---	---	179	229	241	222
23	---	---	---	---	---	---	---	---	182	247	240	222
24	---	---	---	---	---	---	---	---	187	227	235	240
25	---	---	---	---	---	---	---	---	184	228	238	235
26	---	---	---	---	---	---	---	---	192	233	233	244
27	---	---	---	---	---	---	---	---	185	240	230	227
28	---	---	---	---	---	---	---	---	214	234	225	288
29	---	---	---	---	---	---	---	---	222	242	241	225
30	---	---	---	---	---	---	---	---	187	248	234	230
31	---	---	---	---	---	---	---	145	---	262	236	---
MONTH	---	---	---	---	---	---	---	---	162	222	240	231

15564800 YUKON RIVER AT RUBY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
MAY										
31-31	636800	4.2	--	--	22	4.0	1.9	1.3	78	9.8
JUNE										
01-14	636800	4.2	--	--	22	4.0	1.9	1.3	78	9.8
15-29	433000	5.3	--	--	26	5.1	2.3	1.5	96	13
30-30	324400	5.7	--	--	30	6.1	2.8	1.5	107	19
JULY										
01-17	324400	5.7	--	--	30	6.1	2.8	1.5	107	19
18-31	312500	6.1	--	--	36	6.4	3.2	1.9	126	19
AUG.										
01-28	312500	6.1	--	--	36	6.4	3.2	1.9	126	19
29-31	224400	6.8	--	--	33	7.3	3.7	1.5	117	22
SEP.										
01-29	224400	6.8	--	--	33	7.3	3.7	1.5	117	22
ANALYSES OF ADDITIONAL SAMPLES										
MAR.										
19...	26500	10	--	180	42	9.7	4.0	1.6	154	24
JUNE										
09...	594000	6.1	--	40	22	3.7	1.2	1.1	76	9.6
JULY										
14...	274000	5.6	2700	--	32	6.3	2.3	1.2	106	20
AUG.										
15...	282000	6.4	--	130	36	6.0	2.8	1.9	120	20

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-CTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
MAY										
31-31	.5	.3	.7	83	72	8	142	7.6	50	--
JUNE										
01-14	.5	.3	.7	83	72	8	142	7.6	50	--
15-29	.5	.2	.2	101	86	7	179	7.5	20	--
30-30	.5	.1	.1	119	100	12	206	8.1	10	--
JULY										
01-17	.5	.1	.1	119	100	12	206	8.1	10	--
18-31	1.0	.2	.1	136	117	14	238	7.4	40	--
AUG.										
01-28	1.0	.2	.1	136	117	14	238	7.4	40	--
29-31	1.0	.2	.1	134	113	17	232	7.6	10	--
SEP.										
01-29	1.0	.2	.1	134	113	17	232	7.6	10	--
ANALYSES OF ADDITIONAL SAMPLES										
MAR.										
19...	1.0	.1	.6	169	146	20	287	7.8	10	.0
JUNE										
09...	2.0	.2	.4	83	73	11	142	7.6	50	13.0
JULY										
14...	.5	.2	.0	120	106	19	207	7.7	10	--
AUG.										
15...	.5	.2	.1	133	115	17	229	7.7	30	13.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	8.0	17.0	14.5	13.0
2	---	---	---	---	---	---	---	---	8.0	16.0	14.5	11.5
3	---	---	---	---	---	---	---	---	9.0	16.0	14.0	11.5
4	---	---	---	---	---	---	---	---	9.0	15.5	14.5	11.0
5	---	---	---	---	---	---	---	---	10.0	15.0	15.0	10.0
6	---	---	---	---	---	---	---	---	10.0	15.5	14.5	9.5
7	---	---	---	---	---	---	---	---	11.0	15.5	14.5	9.0
8	---	---	---	---	---	---	---	---	12.0	16.0	14.0	8.5
9	---	---	---	---	---	---	---	---	13.0	17.0	14.0	8.5
10	---	---	---	---	---	---	---	---	14.0	17.0	14.5	8.5
11	---	---	---	---	---	---	---	---	14.0	17.0	14.0	8.5
12	---	---	---	---	---	---	---	---	15.5	17.5	14.5	8.0
13	---	---	---	---	---	---	---	---	15.5	16.5	15.5	8.0
14	---	---	---	---	---	---	---	---	14.0	15.5	15.0	8.0
15	---	---	---	---	---	---	---	---	14.5	15.5	15.0	7.5
16	---	---	---	---	---	---	---	---	13.0	15.0	14.0	7.0
17	---	---	---	---	---	---	---	---	13.0	15.5	14.0	7.0
18	---	---	---	---	---	---	---	---	13.0	16.5	14.0	7.0
19	---	---	---	---	---	---	---	---	14.0	16.5	14.0	6.5
20	---	---	---	---	---	---	---	---	15.0	16.5	12.0	6.0
21	---	---	---	---	---	---	---	---	16.0	16.5	13.0	7.0
22	---	---	---	---	---	---	---	---	17.0	16.5	---	7.0
23	---	---	---	---	---	---	---	---	17.0	17.0	12.5	7.0
24	---	---	---	---	---	---	---	---	17.5	17.0	12.5	7.0
25	---	---	---	---	---	---	---	---	18.0	17.0	12.0	6.0
26	---	---	---	---	---	---	---	---	18.5	16.5	12.0	5.5
27	---	---	---	---	---	---	---	---	18.5	17.0	13.0	5.0
28	---	---	---	---	---	---	---	---	18.5	16.0	13.0	4.5
29	---	---	---	---	---	---	---	---	17.5	---	13.0	4.5
30	---	---	---	---	---	---	---	---	---	16.0	13.0	5.0
31	---	---	---	---	---	---	---	8.0	---	15.5	13.0	---
MONTH	---	---	---	---	---	---	---	---	14.0	16.5	14.0	8.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM
MAR.								
19...	1915	.0	300	--	26500	16	1150	--
JUNE								
09...	1815	13.0	142	60	594000	518	831000	11
AUG.								
15...	1640	15.5	229	95	282000	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
MAR.								
19...	--	--	--	--	--	--	--	--
JUNE								
09...	18	22	32	47	68	87	99	100
AUG.								
15...	--	--	--	--	--	--	--	--

15564875 MIDDLE FORK KOYUKUK RIVER NEAR WISEMAN

LOCATION.--Lat 67°26'35", long 150°03'40", temperature recorder on left bank, 0.8 mile upstream from Minnie Creek, 2.8 miles downstream from Hammond River, and 1.6 miles north of Wiseman.

DRAINAGE AREA.--1,426 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1971 (partial-record station).
Water temperatures: June to September 1971.
Sediment records: September 1970 to September 1971 (partial-record station).

EXTREMES, 1971.--Water temperatures: Maximum, not determined; minimum, freezing point on many days during winter months.

REMARKS.--No temperature records available for June 27 to July 26 and Aug. 26 to Sept. 30, well was dry.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.										
02...	186	3.4	50	46	26	3.3	.7	176	79	1.0
NOV.										
13...	--	3.9	0	55	26	3.5	.7	208	81	.8
APR.										
16...	5.0	4.6	0	61	26	3.4	.5	231	72	1.0
SEP.										
09...	465	3.5	--	52	20	2.5	.6	163	63	.8

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.									
02...	.2	1.1	247	222	78	420	8.1	0	.0
NOV.									
13...	.1	.1	273	244	73	458	8.2	0	.0
APR.									
16...	.1	.5	283	259	70	476	7.9	0	2.0
SEP.									
09...	.2	1.8	232	212	65	411	8.3	0	3.0

15564875 MIDDLE FORK KOYUKUK RIVER NEAR WISEMAN--Continued

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	13.5	12.0	---	---
2	---	---	---	---	---	---	---	---	13.0	12.5	---	---
3	---	---	---	---	---	---	---	---	14.0	12.5	---	---
4	---	---	---	---	---	---	---	---	14.5	12.5	---	---
5	---	---	---	---	---	---	---	---	14.0	11.0	---	---
6	---	---	---	---	---	---	---	---	14.5	12.0	---	---
7	---	---	---	---	---	---	---	---	13.0	12.5	---	---
8	---	---	---	---	---	---	---	---	14.0	12.0	---	---
9	---	---	---	---	---	---	---	---	13.0	12.5	---	---
10	---	---	---	---	---	---	---	---	13.5	12.5	---	---
11	---	---	---	---	---	---	---	---	14.5	12.0	---	---
12	---	---	---	---	---	---	---	---	14.0	12.0	---	---
13	---	---	---	---	7.0	5.5	---	---	14.5	12.0	---	---
14	---	---	---	---	7.5	6.0	---	---	14.0	12.5	---	---
15	---	---	---	---	6.5	5.0	---	---	14.0	12.0	---	---
16	---	---	---	---	6.5	4.5	---	---	14.5	11.5	---	---
17	---	---	---	---	6.0	4.5	---	---	14.0	12.0	---	---
18	---	---	---	---	6.0	3.0	---	---	13.0	12.0	---	---
19	---	---	---	---	5.5	4.0	---	---	13.0	12.0	---	---
20	---	---	---	---	5.0	3.0	---	---	13.0	12.5	---	---
21	---	---	---	---	6.0	3.5	---	---	13.5	12.5	---	---
22	---	---	---	---	6.0	3.5	---	---	13.0	12.0	---	---
23	---	---	---	---	5.5	3.5	---	---	13.5	12.0	---	---
24	---	---	---	---	5.0	3.5	---	---	13.0	12.0	---	---
25	---	---	---	---	6.0	4.5	---	---	13.5	12.0	---	---
26	---	---	---	---	5.0	4.0	---	---	---	---	---	---
27	---	---	---	---	---	---	14.0	12.5	---	---	---	---
28	---	---	---	---	---	---	13.5	13.0	---	---	---	---
29	---	---	---	---	---	---	14.0	13.0	---	---	---	---
30	---	---	---	---	---	---	13.5	12.5	---	---	---	---
31	---	---	---	---	---	---	13.0	12.5	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	14.5	11.0	---	---

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
JUNE								
11...	1700	--	193	4600	575	7140	18	28
JULY								
27...	1100	12.5	382	1240	10	33	--	--
SEP.								
09...	0815	3.0	428	465	10	13	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
JUNE							
11...	37	41	57	73	88	99	100
JULY							
27...	--	--	--	--	--	--	--
SEP.							
09...	--	--	--	--	--	--	--

15564885 Jim River near Bettles

LOCATION.--Lat 66°47'05", long 150°52'10", temperature recorder on right bank, 4.8 miles downstream from Prospect Creek, 12.3 miles upstream from South Fork Koyukuk River, 4 miles west of Prospect Creek, and 20 miles southeast of Bettles.

DRAINAGE AREA.--465 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1970 to September 1971 (partial-record station).
Water temperatures: June to September 1971.
Sediment records: September 1970 to September 1971 (partial-record station).

EXTREMES, 1971.--Water temperatures: Maximum, 15.0°C June 26, 27, July 4, 20; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
OCT.										
03...	129	7.4	40	--	8.5	2.4	1.4	.5	30	7.6
NOV.										
13...	76	8.0	--	40	12	2.8	1.5	.5	47	5.1
APR.										
15...	35	7.9	--	10	15	3.5	1.7	.4	56	7.7
SEP.										
08...	445	7.5	--	40	10	1.9	1.0	.3	28	6.4

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONO-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT.										
03...	1.0	.0	.5	44	31	6	71	7.6	0	.0
NOV.										
13...	.2	.2	.0	53	42	3	87	7.2	5	.0
APR.										
15...	.5	.1	1.7	67	52	6	108	7.1	5	.0
SEP.										
08...	.2	.0	.2	42	33	10	57	7.1	10	5.5

15564885 JIM RIVER NEAR BETTLES--Continued

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	11.0	8.0	9.0	8.0	9.0	7.0
2	---	---	---	---	---	---	12.0	8.5	11.0	8.5	8.5	7.0
3	---	---	---	---	---	---	14.0	10.0	10.0	8.0	7.0	6.0
4	---	---	---	---	---	---	15.0	11.0	10.5	8.0	7.0	6.5
5	---	---	---	---	---	---	14.0	11.5	10.5	8.0	7.0	7.0
6	---	---	---	---	---	---	13.5	11.0	10.0	8.0	7.0	6.0
7	---	---	---	---	---	---	13.5	11.0	11.0	9.0	7.0	6.0
8	---	---	---	---	---	---	13.0	11.0	10.0	9.0	7.0	5.0
9	---	---	---	---	---	---	14.0	11.0	10.0	9.0	6.0	5.0
10	---	---	---	---	---	---	13.5	12.0	11.0	9.0	6.0	5.0
11	---	---	---	---	9.0	7.0	14.5	12.0	11.0	8.5	6.0	4.5
12	---	---	---	---	10.0	8.0	14.0	12.0	11.0	8.5	6.0	4.5
13	---	---	---	---	9.5	7.0	13.0	11.0	11.0	8.0	6.0	5.0
14	---	---	---	---	8.5	6.0	11.0	9.5	10.0	8.0	5.0	3.5
15	---	---	---	---	9.0	7.0	9.5	8.0	10.0	7.5	5.0	3.5
16	---	---	---	---	8.0	6.5	10.0	7.0	10.0	7.0	5.0	4.5
17	---	---	---	---	8.0	6.5	11.0	8.0	10.0	8.0	5.0	4.5
18	---	---	---	---	9.5	7.0	12.0	9.0	11.0	9.0	5.0	4.5
19	---	---	---	---	11.0	8.5	12.0	11.0	10.0	9.0	4.5	3.0
20	---	---	---	---	12.0	8.5	15.0	11.0	10.0	9.0	5.0	4.0
21	---	---	---	---	13.5	10.0	14.0	11.5	10.0	9.0	5.0	5.0
22	---	---	---	---	12.0	10.5	12.5	9.5	10.0	8.0	5.0	4.0
23	---	---	---	---	12.0	9.5	12.0	9.5	10.0	9.0	4.5	3.0
24	---	---	---	---	13.0	9.0	12.0	10.0	11.0	8.5	5.0	4.0
25	---	---	---	---	14.0	11.0	12.0	10.0	11.0	8.5	4.5	4.0
26	---	---	---	---	15.0	12.0	13.5	11.0	10.0	9.0	4.0	3.5
27	---	---	---	---	15.0	12.0	13.0	10.0	10.0	8.0	4.0	3.0
28	---	---	---	---	14.0	11.5	12.0	8.0	10.0	7.5	3.5	2.0
29	---	---	---	---	13.0	10.0	9.0	7.0	10.0	8.0	2.0	2.0
30	---	---	---	---	10.5	8.5	8.5	8.0	10.0	7.0	2.0	2.0
31	---	---	---	---	---	---	9.0	8.0	9.5	7.5	---	---
MONTH	---	---	---	---	---	---	15.0	7.0	11.0	7.0	9.0	2.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.							
13...	0930	.0	87	3	76	--	--
JUNE							
10...	1545	7.5	28	--	1970	55	293
JULY							
20...	2030	14.5	64	--	410	2	2.2
SEP.							
08...	1450	5.5	57	--	445	5	6.0

15896000 KUPARUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16'54", long 148°57'35", in NE 1/4 sec.25, T.11 N., R.12 E., temperature recorder near right bank, 1.8 miles northeast of SE Eileen State No. 1, 2.1 miles south of Rivers Camp Service City, 10 miles from mouth on Gwyder Bay, and 13 miles northwest of Deadhorse.

DRAINAGE AREA.--3,130 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971 (partial-record station).
Water temperatures: June to September 1971.
Sediment records: May to September 1971 (partial-record station).

REMARKS.--No temperature records available Sept. 16-30, thermograph was removed for the winter on Sept. 15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
APR.										
03...	--	10	--	100	179	18	12	1.7	624	15
MAY										
31...	10100	.8	30	--	4.4	.7	.6	.6	17	.4
JUNE										
04...	--	--	--	--	--	--	--	--	32	--
24...	1620	--	--	--	--	--	--	--	53	--
AUG.										
13...	--	1.5	0	--	17	1.8	1.8	.4	65	.6
SEP.										
15...	254	1.8	--	--	24	2.2	1.8	.3	82	--

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
APR.										
03...	6.0	.3	7.0	556	520	8	917	7.8	40	.0
MAY										
31...	.8	.1	1.2	18	14	0	32	7.0	10	.5
JUNE										
04...	--	--	--	--	29	3	57	6.9	--	--
24...	--	--	--	--	44	1	88	7.5	--	14.5
AUG.										
13...	.5	.1	.0	56	50	1	107	8.0	0	--
SEP.										
15...	.5	.0	.1	--	68	1	134	7.9	--	2.5

15896000 KUPARUK RIVER NEAR DEADHORSE--Continued

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	10.5	8.0	10.0	9.5	3.0	2.0
2	---	---	---	---	---	---	11.5	10.0	10.0	10.0	2.0	1.5
3	---	---	---	---	---	---	12.0	10.0	10.0	9.0	1.5	1.0
4	---	---	---	---	---	---	12.5	10.5	8.5	7.5	1.5	1.5
5	---	---	---	---	---	---	12.0	10.5	7.5	7.0	2.0	1.5
6	---	---	---	---	---	---	11.0	10.0	9.0	6.5	2.5	2.0
7	---	---	---	---	---	---	12.5	9.5	9.0	8.0	2.5	2.5
8	---	---	---	---	---	---	14.5	12.0	8.0	7.5	2.5	2.5
9	---	---	---	---	---	---	15.5	14.0	8.5	7.5	2.5	2.5
10	---	---	---	---	---	---	15.5	14.0	8.5	7.5	2.5	2.5
11	---	---	---	---	---	---	14.0	11.0	8.0	7.0	2.5	2.5
12	---	---	---	---	---	---	11.0	9.5	8.0	6.5	2.5	2.0
13	---	---	---	---	---	---	9.5	9.0	6.5	5.5	2.0	1.5
14	---	---	---	---	---	---	10.0	8.5	7.0	5.5	2.0	1.5
15	---	---	---	---	---	---	10.0	9.0	8.0	6.0	2.5	2.0
16	---	---	---	---	---	---	10.0	9.0	9.0	7.0	---	---
17	---	---	---	---	---	---	11.5	9.0	9.5	8.0	---	---
18	---	---	---	---	---	---	13.5	11.0	10.0	9.0	---	---
19	---	---	---	---	---	---	14.0	12.5	9.5	7.0	---	---
20	---	---	---	---	---	---	12.5	10.0	7.0	6.0	---	---
21	---	---	---	---	---	---	11.5	10.0	6.0	5.5	---	---
22	---	---	---	---	---	---	12.0	11.5	5.5	4.5	---	---
23	---	---	---	---	---	---	13.0	12.0	4.5	4.5	---	---
24	---	---	---	---	15.0	14.5	12.5	11.0	4.5	3.5	---	---
25	---	---	---	---	15.0	13.5	11.0	10.0	4.5	4.0	---	---
26	---	---	---	---	12.0	9.5	12.0	9.0	4.5	4.5	---	---
27	---	---	---	---	10.5	8.0	13.0	11.5	4.5	4.5	---	---
28	---	---	---	---	10.0	8.5	13.0	12.5	4.5	4.5	---	---
29	---	---	---	---	9.5	8.0	13.0	11.5	4.5	4.0	---	---
30	---	---	---	---	9.0	8.0	12.0	10.5	4.0	4.0	---	---
31	---	---	---	---	---	---	11.5	10.0	4.0	3.0	---	---
MONTH	---	---	---	---	---	---	15.5	8.0	10.0	3.0	---	---

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
MAY						
31...	1600	.5	32	10100	61	1660
JUNE						
02...	1100	--	40	29000	174	13600
24...	1500	14.5	88	1620	4	17
SEP.						
15...	1320	2.5	134	254	2	1.4

15910000 SAGAVANIRKTOK RIVER NEAR SAGWON

LOCATION.--Lat 69°05'20", long 147°45'10", temperature recorder on right bank 0.6 mile downstream from Lupine River, 33.5 miles upstream from Ivishak River, and 20 miles south of Sagwon.

DRAINAGE AREA.--2,208 sq mi.

PERIOD OF RECORD.--Chemical Analyses: May 1969 to September 1971 (partial-record station).
Water temperatures: June to September 1971.
Sediment records: August 1969 to September 1971 (partial-record station).

EXTREMES, 1970-71.--Water temperatures: Maximum, 17.0°C; minimum, freezing point on many days during winter months.

REMARKS.--No temperature records available Sept. 5-30, 1971, well was dry.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
NOV.										
15...	--	3.0	--	40	37	7.3	.9	.2	134	15
MAR.										
17...	1.9	4.3	60	--	48	6.6	2.4	.2	174	13
APR.										
17...	1.5	2.8	--	0	56	5.5	2.2	.2	182	12
JUNE										
05...	7370	--	--	--	--	--	--	--	76	--
05...	7370	1.2	20	--	22	2.7	.5	.2	73	4.2
AUG.										
12...	--	--	--	--	--	--	--	--	116	--
12...	--	2.1	20	--	40	4.8	.7	.3	128	9.8
SEP.										
09...	942	2.7	50	--	35	6.0	.5	.1	127	8.8

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
NOV.										
15...	.2	.2	.7	131	123	13	230	8.1	0	--
MAR.										
17...	.5	.1	.3	162	147	4	291	8.3	10	--
APR.										
17...	1.0	.3	.9	171	163	14	298	7.9	0	.5
JUNE										
05...	--	--	--	--	80	18	129	7.5	--	7.5
05...	1.1	.2	.2	68	67	7	122	7.6	0	8.0
AUG.										
12...	--	--	--	--	108	13	196	8.1	--	--
12...	.5	.2	.0	121	119	14	217	8.3	10	--
SEP.										
09...	.5	.2	.2	116	112	8	213	8.1	0	2.0

15910000 SAGAVANIRKTOK RIVER NEAR SAGWON--Continued

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1971

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	12.5	8.0	8.0	7.0	7.0	6.0
2	---	---	---	---	---	---	13.0	9.0	11.0	10.5	7.0	6.0
3	---	---	---	---	---	---	14.5	10.0	11.5	10.0	6.0	5.5
4	---	---	---	---	---	---	16.5	11.0	11.0	9.0	6.0	6.0
5	---	---	---	---	---	---	17.0	12.5	10.0	9.0	---	---
6	---	---	---	---	10.0	5.0	16.5	14.0	13.0	9.0	---	---
7	---	---	---	---	11.0	6.0	15.5	13.0	13.0	11.0	---	---
8	---	---	---	---	11.0	8.0	16.0	14.0	12.0	10.0	---	---
9	---	---	---	---	12.0	9.0	15.5	14.0	12.0	11.0	---	---
10	---	---	---	---	11.0	7.5	15.5	14.0	12.0	10.0	---	---
11	---	---	---	---	7.5	5.0	13.0	12.0	13.0	10.0	---	---
12	---	---	---	---	6.5	5.0	12.5	12.0	13.0	10.5	---	---
13	---	---	---	---	5.0	3.0	13.0	12.0	11.0	10.0	---	---
14	---	---	---	---	5.5	3.0	13.0	11.0	13.0	9.0	---	---
15	---	---	---	---	9.0	5.0	10.5	9.0	15.0	9.5	---	---
16	---	---	---	---	12.0	8.0	9.5	8.5	15.5	11.5	---	---
17	---	---	---	---	11.5	9.0	12.0	9.0	15.0	12.0	---	---
18	---	---	---	---	11.5	9.5	13.0	10.5	16.0	13.0	---	---
19	---	---	---	---	13.0	7.0	15.0	12.0	16.0	12.0	---	---
20	---	---	---	---	14.5	11.0	16.0	12.5	11.5	9.5	---	---
21	---	---	---	---	14.0	11.5	16.0	13.5	10.0	9.0	---	---
22	---	---	---	---	15.5	12.0	13.0	11.0	10.0	7.5	---	---
23	---	---	---	---	16.0	14.0	12.0	10.5	9.0	8.0	---	---
24	---	---	---	---	16.0	14.0	13.0	11.0	10.5	7.0	---	---
25	---	---	---	---	15.0	13.5	14.0	11.5	11.0	8.0	---	---
26	---	---	---	---	14.0	11.0	14.0	12.0	11.5	9.0	---	---
27	---	---	---	---	12.5	11.0	13.0	11.5	11.0	10.0	---	---
28	---	---	---	---	12.5	10.0	13.0	10.5	12.0	10.0	---	---
29	---	---	---	---	10.5	8.0	10.5	8.5	12.0	10.0	---	---
30	---	---	---	---	9.0	7.0	10.5	8.5	10.0	8.0	---	---
31	---	---	---	---	---	---	10.5	8.0	8.5	6.0	---	---
MONTH	---	---	---	---	16.0	3.0	17.0	8.0	16.0	6.0	---	---

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JUNE							
05...	1930	--	160	--	7370	76	1510
AUG.							
01...	1350	7.0	--	2	4720	--	--
SEP.							
09...	1330	2.0	216	--	942	3	7.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

The following tables contain records of chemical analyses and suspended-sediment loads for sites where limited water-quality data are collected by the Geological Survey. Most of these sites are at stream-gaging stations and crest-stage partial-record stations; a few of the sites are at ungaged sites.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
SOUTHEASTERN ALASKA										
15008000 - SALMON RIVER NEAR HYDER (LAT 56 01 34 LONG 130 03 55)										
OCT., 1970										
23...	291	1.7	60	--	16	1.2	.7	.8	39	14
MAR., 1971										
24...	29	2.9	--	130	28	1.3	1.0	.8	59	29
MAY										
17...	275	2.6	30	--	21	1.2	.6	.8	46	19
AUG.										
01...	3390	1.5	2100	--	6.9	.7	.3	.5	21	1.0
15011500 - RED RIVER NEAR METLAKATLA (LAT 55 08 29 LONG 130 31 50)										
AUG., 1971										
03...	329	2.3	350	--	2.3	.4	.9	.2	6	1.0
SEP.										
02...	242	--	--	--	--	--	--	--	8	--
15012000 - WINSTANLEY CREEK NEAR KETCHIKAN (LAT 55 25 00 LONG 130 52 05)										
SEP., 1971										
03...	185	1.8	100	--	1.4	.4	.5	.2	6	.4
15015600 - KLAHINI RIVER NEAR BELL ISLAND (LAT 56 03 15 LONG 131 02 55)										
OCT., 1970										
26...	234	3.0	40	--	3.6	.4	.7	.8	12	2.0
JAN., 1971										
13...	100	--	--	--	--	--	1.0	.5	12	--
MAR.										
22...	49	5.0	--	200	6.2	.6	1.3	.5	15	5.6
MAY										
20...	440	--	--	--	--	--	--	--	10	--
SEP.										
03...	3040	2.2	620	--	1.8	.3	.3	.3	5	.4
15022000 - HARDING RIVER NEAR WRANGELL (LAT 56 12 50 LONG 131 38 14) (Hydrologic bench-mark station)										
OCT., 1970										
29...	2010	2.5	370	--	2.8	.4	.7	.8	10	1.6
JAN., 1971										
09...	232	--	--	--	--	--	--	--	10	--
MAR.										
20...	73	4.1	--	180	3.8	.5	1.0	.5	14	2.2
MAY										
15...	632	--	--	--	--	--	--	--	11	--
AUG.										
08...	1160	--	--	--	--	--	--	--	8	--
SEP.										
06...	1640	2.3	220	--	2.3	.3	.3	.4	8	.6
15026000 - CASCADE CREEK NEAR PETERSBURG (LAT 57 00 21 LONG 132 46 45)										
AUG., 1971										
09...	402	2.2	120	--	2.7	.3	.3	.2	7	1.0
SEP.										
08...	526	1.4	40	--	2.2	.2	.2	.2	8	.6
15031000 - LONG RIVER AB LONG LAKE NR JUNEAU (LAT 58 10 56 LONG 133 53 06)										
APR., 1971										
28...	20	2.2	430	--	3.6	.5	.8	.5	10	3.0
15034000 - LONG RIVER NEAR JUNEAU (LAT 58 10 00 LONG 133 41 50)										
OCT., 1970										
08...	1460	1.3	--	140	2.2	.6	.9	.8	10	2.4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
SOUTHEASTERN ALASKA--Continued										
15CC8000 - SALMON RIVER NEAR HYDER (LAT 56 01 34 LONG 130 03 55)										
OCT., 1970										
23...	1.1	.1	.3	55	46	14	101	7.7	--	--
MAR., 1971										
24...	.8	.0	.2	93	76	28	156	7.8	--	.0
MAY										
17...	.8	.1	1.3	70	58	20	121	7.8	5	3.0
AUG.										
01...	1.4	.1	.7	23	20	3	42	7.4	5	3.0
15011500 - RED RIVER NEAR METLAKATLA (LAT 55 08 29 LONG 130 31 50)										
AUG., 1971										
03...	2.4	.1	.3	13	7	2	17	6.7	5	8.0
SEP.										
02...	8.5	--	--	--	9	2	50	7.0	--	--
15012000 - WINSTANLEY CREEK NEAR KETCHIKAN (LAT 55 25 00 LONG 130 52 05)										
SEP., 1971										
03...	.5	.1	.2	9	5	0	14	6.7	20	--
15015600 - KLAHINI RIVER NEAR BELL ISLAND (LAT 56 03 15 LONG 131 02 55)										
OCT., 1970										
26...	1.1	.1	.4	18	12	2	27	7.0	--	--
JAN., 1971										
13...	--	--	--	--	13	3	34	7.2	--	.5
MAR.										
22...	1.0	.1	.6	29	18	6	42	7.1	0	.0
MAY										
20...	--	--	--	--	10	2	24	7.1	--	4.0
SEP.										
03...	1.0	.1	.2	9	6	2	12	6.2	25	9.5
15022000 - HARDING RIVER NEAR WRANGELL (LAT 56 12 50 LONG 131 38 14) (Hydrologic bench-mark station)										
OCT., 1970										
29...	1.1	.1	.5	16	8	0	20	6.8	--	7.5
JAN., 1971										
09...	--	--	--	--	8	0	24	6.9	--	.0
MAR.										
20...	.0	.0	.5	20	12	1	31	7.0	5	1.0
MAY										
15...	--	--	--	--	10	1	26	7.0	--	3.0
AUG.										
08...	--	--	--	--	6	0	14	7.1	--	8.5
SEP.										
06...	.4	.1	.1	10	6	0	15	6.9	5	7.5
15026000 - CASCADE CREEK NEAR PETERSBURG (LAT 57 00 21 LONG 132 46 45)										
AUG., 1971										
09...	1.5	.1	.1	12	8	2	15	6.9	5	11.0
SEP.										
08...	.5	.1	.0	9	6	0	14	6.9	0	8.0
15031000 - LONG RIVER AB LONG LAKE NR JUNEAU (LAT 58 10 56 LONG 133 53 06)										
APR., 1971										
28...	1.8	.1	.3	18	11	3	28	7.0	0	2.0
15034000 - LONG RIVER NEAR JUNEAU (LAT 58 10 00 LONG 133 41 50)										
OCT., 1970										
08...	1.1	.0	.0	14	8	0	21	7.1	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
SOUTHEASTERN ALASKA--Continued										
15052000 - LEMON CREEK NEAR JUNEAU (LAT 58 23 30 LONG 134 25 15)										
MAR., 1971										
23...	1.5	5.4	--	--	8.2	1.0	.9	1.0	21	6.8
MAY										
17...	23	--	--	--	--	--	--	--	22	--
15052500 - MENDENHALL RIVER NEAR AUKE BAY (LAT 58 25 05 LONG 134 32 40)										
SEP., 1971										
29...	639	1.9	2400	--	2.8	.6	.3	1.0	10	2.8
15052800 - MONTANA CREEK NEAR AUKE BAY (LAT 58 23 53 LONG 134 36 34)										
OCT., 1970										
29...	220	2.9	130	--	5.4	.6	1.4	.0	17	4.4
JAN., 1971										
14...	21	--	--	--	--	--	1.2	.7	27	--
FEB.										
03...	22	5.0	750	--	10	1.2	1.3	.7	29	8.0
MAR.										
09...	14	--	--	--	--	--	1.2	.6	26	--
MAY										
04...	72	--	--	--	--	--	--	--	20	--
JULY										
23...	92	--	--	--	--	--	--	--	19	--
15054600 - BRIDGET COVE TRIB NEAR AUKE BAY (LAT 58 37 13 LONG 134 56 02)										
OCT., 1970										
01...	12	3.2	330	--	4.0	1.5	1.8	.2	18	2.0
JUNE, 1971										
02...	2.7	2.4	--	160	6.0	1.0	2.3	.3	20	2.0
23...	.90	3.6	120	--	10	1.6	2.1	.4	35	3.6
SEP.										
21...	2.1	5.9	430	--	7.4	1.4	3.4	.5	26	4.8
BRIDGET LAKE NEAR JUNEAU (LAT 58 37 00 LONG 134 54 30)										
AUG., 1971										
06...	--	.9	0	--	11	1.1	2.1	.2	35	2.6
06...	--	.8	20	--	17	1.2	2.6	.4	54	2.6
15059500 - WHIPPLE CREEK NEAR WARD COVE (LAT 55 26 30 LONG 131 47 38)										
OCT., 1970										
24...	50	2.9	200	--	2.4	.6	2.3	.4	7	4.4
JAN., 1971										
11...	11	--	--	--	--	--	2.1	.8	7	--
MAR.										
26...	7.5	5.0	670	--	3.2	.7	2.0	.9	7	6.0
MAY										
16...	24	3.3	--	80	3.3	.7	1.7	.6	8	5.0
15063700 - CARLANNA LAKE AT KETCHIKAN (LAT 55 21 48 LONG 134 41 24)										
DEC., 1970										
10...	--	2.3	60	--	.8	.3	1.2	.1	1	.8
15063800 - KETCHIKAN LAKE NEAR KETCHIKAN RES (LAT 55 20 42 LONG 131 32 54)										
DEC., 1970										
11...	--	1.5	20	--	1.0	.3	.8	.4	1	.6
15072000 - FISH CREEK NEAR KETCHIKAN (LAT 55 23 30 LONG 131 11 40)										
AUG., 1971										
05...	290	.2	60	--	2.7	.4	.5	.3	7	2.0
SEP.										
02...	240	--	--	--	--	--	--	--	8	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
SOUTHEASTERN ALASKA--Continued										
15052000 - LEMON CREEK NEAR JUNEAU (LAT 58 23 30 LONG 134 25 15)										
MAR., 1971										
23...	1.0	.1	.8	35	24	7	56	7.3	--	.5
MAY										
17...	--	--	--	--	26	8	62	7.4	--	2.0
1505250C - MENDENHALL RIVER NEAR AUKE BAY (LAT 58 25 05 LONG 134 32 40)										
SEP., 1971										
29...	.8	.0	.0	15	10	2	23	7.0	15	2.0
15052800 - MONTANA CREEK NEAR AUKE BAY (LAT 58 23 53 LONG 134 36 34)										
OCT., 1970										
29...	.7	.1	.3	24	16	2	36	7.5	--	5.0
JAN., 1971										
14...	--	--	--	--	28	6	65	7.3	--	1.0
FEB.										
03...	.8	.1	.7	42	31	7	70	7.5	0	.0
MAR.										
09...	--	--	--	--	30	9	64	7.5	--	.0
MAY										
04...	--	--	--	--	22	6	44	7.4	--	--
JULY										
23...	--	--	--	--	19	3	43	7.0	--	7.0
1505460C - BRIDGET COVE TRIB NEAR AUKE BAY (LAT 58 37 13 LONG 134 56 02)										
OCT., 1970										
01...	1.1	.1	1.1	24	16	1	38	7.3	--	8.0
JUNE, 1971										
02...	3.5	.1	.8	28	19	3	47	7.2	30	4.5
23...	3.8	.0	.9	43	30	1	75	7.5	20	9.5
SEP.										
21...	3.0	.2	.5	40	24	3	62	7.0	110	--
BRIDGET LAKE NEAR JUNEAU (LAT 58 37 00 LONG 134 54 30)										
AUG., 1971										
06...	3.0	.0	.4	38	32	3	73	7.5	5	--
06...	2.8	.1	.5	55	47	3	102	7.4	20	--
15059500 - WHIPPLE CREEK NEAR WARD COVE (LAT 55 26 30 LONG 131 47 38)										
OCT., 1970										
24...	2.5	.2	.4	20	8	2	29	7.0	--	5.0
JAN., 1971										
11...	--	--	--	--	11	5	41	7.1	--	--
MAR.										
26...	3.5	.1	.2	25	11	5	37	6.8	0	3.0
MAY										
16...	3.2	.1	.4	22	11	5	32	6.9	10	4.0
15063700 - CARLANNA LAKE AT KETCHIKAN (LAT 55 21 48 LONG 134 41 24)										
DEC., 1970										
10...	2.5	.1	.0	9	3	2	14	5.8	--	--
15063800 - KETCHIKAN LAKE NEAR KETCHIKAN RES (LAT 55 20 42 LONG 131 32 54)										
DEC., 1970										
11...	1.8	.6	.0	8	4	3	12	5.5	--	--
15072000 - FISH CREEK NEAR KETCHIKAN (LAT 55 23 30 LONG 131 11 40)										
AUG., 1971										
05...	1.5	.0	.3	11	8	2	18	6.8	0	18.5
SEP.										
02...	--	--	--	--	7	0	18	6.8	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
SOUTHEASTERN ALASKA--Continued										
15081800 - NORTH BRANCH TROCADERO CREEK NEAR HYDABURG (LAT 55 21 41 LONG 132 52 20)										
OCT., 1970										
19...	197	1.7	260	--	3.0	.6	1.8	.0	10	1.0
MAR., 1971										
30...	57	2.9	--	250	4.0	.6	1.8	.1	13	.4
MAY										
23...	518	--	--	--	--	--	--	--	6	--
15081900 - HYDABURG RIVER AT HYDABURG (LAT 55 12 45 LONG 132 49 12)										
JAN., 1971										
19...	54	2.5	220	--	3.8	.5	1.8	.1	12	.4
15087560 - NO NAME C NEAR PETERSBURG (LAT 56 47 31 LONG 132 54 33)										
JAN., 1971										
08...	33	1.6	250	--	1.0	.2	.8	.2	2	.4
MAY										
14...	37	--	--	--	--	--	--	--	4	--
JULY										
22...	3.3	2.8	100	--	1.6	.5	.6	.2	3	2.0
SEP.										
07...	72	2.2	260	--	1.0	.4	.5	.2	4	.4
15098000 - BARANOF RIVER AT BARANOF (LAT 57 05 15 LONG 134 50 30)										
JULY, 1971										
10...	1130	2.3	70	--	1.5	.4	1.0	.3	4	1.0
15108000 - PAVLOF RIVER NEAR TENAKEE (LAT 57 50 30 LONG 135 02 10)										
JULY, 1971										
07...	99	2.4	--	40	18	.9	1.6	.5	53	3.0
AUG.										
18...	37	3.7	--	240	20	1.0	2.5	.5	60	3.6
15109000 - FISH CREEK NEAR AUKE BAY (LAT 58 19 50 LONG 134 35 20)										
OCT., 1970										
27...	113	2.9	190	--	4.2	.4	1.4	.0	14	.8
JAN., 1971										
08...	60	--	--	--	--	--	1.0	.1	14	--
FEB.										
01...	8.9	5.6	150	--	7.4	1.6	2.5	.3	29	3.2
MAR.										
08...	10	--	--	--	--	--	1.5	.2	24	--
MAY										
03...	118	--	--	--	--	--	--	--	14	--
JULY										
14...	51	--	--	--	--	--	--	--	18	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
SOUTHEASTERN ALASKA--Continued										
15081800 - NORTH BRANCH TROCADERO CREEK NEAR HYDABURG (LAT 55 21 41 LONG 132 52 20)										
OCT., 1970										
19...	2.8	.1	.4	17	10	2	25	7.3	--	5.5
MAR., 1971										
30...	3.5	.1	.5	21	12	1	33	7.1	5	1.0
MAY										
23...	--	--	--	--	6	2	17	6.7	--	3.0
15081900 - HYDABURG RIVER AT HYDABURG (LAT 55 12 45 LONG 132 49 12)										
JAN., 1971										
19...	3.2	.1	.2	19	12	2	31	7.0	0	--
15087560 - NO NAME C NEAR PETERSBURG (LAT 56 47 31 LONG 132 54 33)										
JAN., 1971										
08...	2.0	.1	.2	7	4	2	12	6.4	0	.0
MAY										
14...	--	--	--	--	4	1	11	6.3	--	1.0
JULY										
22...	1.5	.2	.4	11	6	4	14	6.4	25	14.5
SEP.										
07...	.5	.1	.2	8	4	1	10	6.2	60	9.0
15098000 - BARANOF RIVER AT BARANOF (LAT 57 05 15 LONG 134 50 30)										
JULY, 1971										
10...	2.8	.1	.2	11	2	0	15	6.3	0	13.5
15108000 - PAVLOF RIVER NEAR TENAKEE (LAT 57 50 30 LONG 135 02 10)										
JULY, 1971										
07...	2.5	.0	.4	55	46	3	96	7.8	5	12.0
AUG.										
18...	3.2	.1	.6	66	53	4	112	7.6	10	14.5
15109000 - FISH CREEK NEAR AUKE BAY (LAT 58 19 50 LONG 134 35 20)										
OCT., 1970										
27...	.7	.2	.6	18	12	1	27	7.2	--	3.5
JAN., 1971										
08...	--	--	--	--	16	5	31	7.2	--	--
FEB.										
01...	2.2	.1	1.0	38	25	1	63	7.5	0	.0
MAR.										
08...	--	--	--	--	22	2	51	7.4	--	1.0
MAY										
03...	--	--	--	--	12	1	26	7.5	--	1.5
JULY										
14...	--	--	--	--	15	0	31	7.4	--	8.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°										
15200000 - GAKONA RIVER AT GAKONA (LAT 62 18 05 LONG 145 18 20)										
OCT., 1970										
01...	--	8.7	--	20	39	7.2	8.3	1.8	130	27
DEC.										
03...	--	11	--	20	42	10	14	2.5	150	33
15200280 - GULKANA RIVER AT SOURDOUGH (LAT 62 32 15 LONG 145 18 20)										
DEC., 1970										
04...	--	11	--	70	30	6.7	10	1.3	112	5.1
MAY , 1971										
27...	--	4.6	740	--	9.8	2.2	2.1	1.3	37	2.3
JULY										
24...	--	6.6	--	--	19	4.8	6.0	5.9	76	11
24...	--	--	--	--	--	--	--	--	76	--
AUG.										
21...	--	--	--	--	18	4.2	4.8	.7	--	.0
21...	--	--	--	--	17	4.1	4.9	.7	--	.0
SEP.										
25...	--	8.1	--	--	15	4.0	4.6	1.1	62	.4
25...	--	8.3	--	--	14	4.0	4.3	1.0	62	.2
15200400 - GULKANA RIVER AT GULKANA (LAT 62 16 00 LONG 145 23 00)										
DEC., 1970										
04...	--	12	--	30	27	7.2	17	1.5	120	5.5
GUNN CREEK NEAR PAXSON (LAT 63 10 02 LONG 145 31 45)										
AUG., 1971										
21...	--	--	--	--	20	3.0	2.4	.6	--	4.2
FISH CREEK NEAR PAXSON ABOVE RICH HWY (LAT 63 06 04 LONG 145 29 04)										
AUG., 1971										
21...	--	--	--	--	7.9	1.4	1.8	.4	--	.2
SCOTTY CREEK AT MILE 1225, ALASKA HWY (LAT 62 38 20 LONG 141 01 40)										
MAY , 1971										
25...	--	4.7	50	--	8.4	2.7	5.0	1.6	31	1.9
15201000 - DRY CREEK NEAR GLENNALLEN (LAT 62 08 49 LONG 145 28 31)										
JULY, 1971										
10...	.20	5.5	--	30	28	11	6.3	2.2	152	.8
15201100 - LITTLE NELCHINA RIVER TRIB NEAR EUREKA LODGE (LAT 61 59 17 LONG 147 00 34)										
JULY, 1971										
07...	2.0	6.6	--	70	16	3.7	2.8	.0	62	.2
SEP.										
30...	2.1	9.6	--	90	18	4.3	3.0	.2	70	5.4
15202000 - TAZLINA RIVER NEAR GLENNALLEN (LAT 62 03 20 LONG 145 25 34)										
NOV., 1970										
30...	791	3.7	--	30	22	3.0	5.2	1.2	70	14
15207900 - LITTLE TONSINA RIVER NEAR CONFLUENCE TONSINA (LAT 61 35 50 LONG 145 13 25)										
DEC., 1970										
02...	--	9.3	--	170	24	3.3	2.7	.6	82	9.0
JULY, 1971										
21...	--	--	--	--	--	--	--	--	26	--
23...	--	4.5	30	--	11	.8	1.0	1.7	32	5.8
AUG.										
21...	--	--	--	--	12	.9	1.0	.2	--	5.8

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15200000 - GAKONA RIVER AT GAKONA (LAT 62 18 05 LONG 145 18 20)										
OCT., 1970										
01...	7.0	.3	.4	164	127	20	276	8.0	10	--
DEC.										
03...	14	.1	.7	201	146	23	337	8.2	0	--
15200280 - GULKANA RIVER AT SOURDOUGH (LAT 62 32 15 LONG 145 18 20)										
DEC., 1970										
04...	18	.2	1.1	139	102	10	238	8.1	5	.0
MAY , 1971										
27...	2.5	.1	1.0	44	34	4	73	7.1	20	2.0
JULY										
24...	16	.1	.0	106	67	5	174	7.8	0	--
24...	--	--	--	--	67	5	175	6.9	--	--
AUG.										
21...	--	--	.2	--	--	--	--	--	--	--
21...	--	--	.0	--	--	--	--	--	--	--
SEP.										
25...	7.0	.2	.2	71	54	3	125	7.5	50	5.5
25...	6.0	.1	.2	68	52	1	122	7.9	50	5.0
15200400 - GULKANA RIVER AT GULKANA (LAT 62 16 00 LONG 145 23 00)										
DEC., 1970										
04...	21	.2	.7	151	98	0	257	8.3	5	--
GUNN CREEK NEAR PAXSON (LAT 63 10 02 LONG 145 31 45)										
AUG., 1971										
21...	--	--	.1	--	--	--	--	--	--	--
FISH CREEK NEAR PAXSON ABOVE RICH HWY (LAT 63 06 04 LONG 145 29 04)										
AUG., 1971										
21...	--	--	.1	--	--	--	--	--	--	--
SCOTTY CREEK AT MILE 1225, ALASKA HWY (LAT 62 38 20 LONG 141 01 40)										
MAY , 1971										
25...	9.2	.3	1.9	51	32	7	94	7.5	30	--
15201000 - DRY CREEK NEAR GLENNALLEN (LAT 62 08 49 LONG 145 28 31)										
JULY, 1971										
10...	1.0	.2	.2	130	65	0	233	8.2	50	17.5
15201100 - LITTLE NELCHINA RIVER TRIB NEAR EUREKA LODGE (LAT 61 59 17 LONG 147 00 34)										
JULY, 1971										
07...	.8	.1	.3	62	54	3	108	7.5	50	12.5
SEP.										
30...	.5	.2	.2	76	63	6	124	7.6	30	1.0
15202000 - TAZLINA RIVER NEAR GLENNALLEN (LAT 62 03 20 LONG 145 25 34)										
NOV., 1970										
30...	7.0	.1	.5	91	68	11	164	7.9	10	.0
15207900 - LITTLE TONSINA RIVER NEAR CONFLUENCE TONSINA (LAT 61 35 50 LONG 145 13 25)										
DEC., 1970										
02...	1.0	.2	.8	91	74	7	150	8.1	0	.0
JULY, 1971										
21...	--	--	--	--	26	5	54	7.1	--	--
23...	2.2	.1	.3	43	31	5	69	7.3	0	--
AUG.										
21...	--	--	.1	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15208100 - SQUIRREL CREEK AT TONSINA (LAT 61 40 05 LONG 145 10 26)										
OCT., 1970										
02...	29	17	--	50	24	5.3	4.4	.9	99	8.0
DEC.										
03...	12	13	--	70	24	6.0	5.8	1.1	102	7.4
MAR., 1971										
15...	12	--	--	--	--	--	--	--	108	--
MAY										
24...	56	--	--	--	--	--	--	--	42	--
JUNE										
03...	66	--	--	--	--	--	--	--	48	--
JULY										
09...	39	9.7	--	40	18	3.8	3.4	.8	73	.6
23...	21	12	--	--	21	5.0	4.4	.8	90	4.6
23...	21	--	--	--	--	--	--	--	90	--
AUG.										
21...	--	--	--	--	24	5.1	4.8	.9	--	5.4
25...	20	--	--	--	--	--	--	--	103	--
SEP.										
26...	22	13	--	--	23	5.1	4.9	.9	97	5.2
26...	22	13	--	--	24	5.2	4.8	.9	97	5.6
15208150 - PIPPIN LAKE NR TONSINA (SOUTH END) (LAT 61 42 20 LONG 145 10 30)										
DEC., 1970										
03...	--	1.1	--	50	40	11	4.8	2.7	174	6.8
15208160 - PIPPIN LAKE NEAR TONSINA (NORTH END) (LAT 61 43 00 LONG 145 10 00)										
DEC., 1970										
03...	--	1.1	--	30	38	10	4.5	2.4	166	6.6
15208200 - ROCK CREEK NEAR TONSINA (LAT 61 45 32 LONG 145 09 14)										
JULY, 1971										
10...	.50	11	--	80	32	6.0	2.8	1.0	115	15
AUG.										
26...	.20	14	0	--	46	10	5.0	1.5	200	12
LITTLE TONSINA NEAR MI 64 RICH HWY (LAT 61 28 39 LONG 145 08 15)										
MAY , 1971										
26...	--	5.1	720	--	12	1.1	1.1	1.4	36	4.4
SEP.										
21...	--	7.8	--	--	17	1.3	2.5	9.4	54	7.2
21...	--	7.5	--	--	16	1.2	1.8	.9	50	6.4
15212000 - COPPER RIVER NEAR CHITINA (LAT 61 27 56 LONG 144 27 21)										
OCT., 1970										
01...	26300	9.9	--	70	26	4.4	6.2	1.6	76	22
MAR., 1971										
14...	3930	12	260	--	42	8.2	14	2.0	124	30
JUNE										
03...	28300	--	--	--	--	--	--	--	74	--
15212400 - TSINA RIVER ABOVE STUART CREEK (LAT 61 14 45 LONG 145 20 00)										
DEC., 1970										
02...	--	4.0	--	0	29	1.2	1.9	.9	70	24
15212450 - STUART CREEK ON RICHARDSON HWY (LAT 61 15 35 LONG 145 17 00)										
DEC., 1970										
02...	--	4.6	--	40	18	.8	1.9	.2	44	16

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15208100 - SQUIRREL CREEK AT TONSINA (LAT 61 40 05 LONG 145 10 26)										
OCT., 1970										
02...	4.0	.2	.1	113	83	2	178	8.0	5	3.0
DEC.										
03...	5.0	.1	.3	113	86	2	183	8.1	0	.0
MAR., 1971										
15...	--	--	--	--	90	1	199	7.8	--	.5
MAY										
24...	--	--	--	--	43	8	107	7.7	--	3.5
JUNE										
03...	--	--	--	--	47	8	111	7.3	--	5.0
JULY										
09...	1.5	.0	.1	74	60	0	126	7.6	20	10.0
23...	3.5	.0	.0	95	73	0	156	8.0	0	--
23...	--	--	--	--	73	0	175	8.0	--	--
AUG.										
21...	--	--	.1	--	--	--	--	--	--	--
25...	--	--	--	--	83	0	180	7.9	--	8.0
SEP.										
26...	4.0	.1	.1	104	78	0	172	8.0	5	2.0
26...	4.0	.1	.1	106	82	2	170	7.5	5	2.5
15208150 - PIPPIN LAKE NR TONSINA (SOUTH END) (LAT 61 42 20 LONG 145 10 30)										
DEC., 1970										
03...	.4	.4	2.3	156	145	2	278	8.3	20	.0
15208160 - PIPPIN LAKE NEAR TONSINA (NORTH END) (LAT 61 43 00 LONG 145 10 00)										
DEC., 1970										
03...	.8	.5	.5	146	136	0	264	8.3	10	.0
15208200 - ROCK CREEK NEAR TONSINA (LAT 61 45 32 LONG 145 09 14)										
JULY, 1971										
10...	.5	.2	.4	126	105	11	185	7.7	80	8.0
AUG.										
26...	.5	.5	.1	188	156	0	314	8.2	10	6.5
LITTLE TONSINA NEAR MI 64 RICH HWY (LAT 61 28 39 LONG 145 08 15)										
MAY , 1971										
26...	.8	.1	1.7	46	34	4	69	7.6	--	1.0
SEP.										
21...	9.0	.0	.1	81	48	4	140	7.9	10	5.0
21...	2.0	.1	.1	61	45	4	99	7.9	10	5.0
15212000 - COPPER RIVER NEAR CHITINA (LAT 61 27 56 LONG 144 27 21)										
OCT., 1970										
01...	8.5	.2	.2	116	83	21	194	8.0	5	4.5
MAR., 1971										
14...	23	.1	.0	192	138	36	331	7.6	5	.0
JUNE										
03...	--	--	--	--	75	14	173	8.0	--	6.5
15212400 - TSINA RIVER ABOVE STUART CREEK (LAT 61 14 45 LONG 145 20 00)										
DEC., 1970										
02...	.4	.2	1.6	97	78	21	162	8.0	0	.0
15212450 - STUART CREEK ON RICHARDSON HWY (LAT 61 15 35 LONG 145 17 00)										
DEC., 1970										
02...	.1	.2	1.1	65	50	14	110	7.8	0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15212500 - BOULDER CREEK NEAR TIEKEL (LAT 61 20 08 LONG 145 18 26)										
AUG., 1971										
25...	8.0	3.5	50	--	9.4	.6	.4	.0	22	6.6
SHEEP CREEK NEAR KEYSTONE CANYON @ RICH HWY (LAT 61 06 57 LONG 145 48 33)										
AUG., 1971										
21...	--	--	--	--	8.5	.6	.4	.4	--	5.0
15226000 - SOLOMON GULCH NEAR VALDEZ (LAT 61 05 LONG 146 19)										
MAY , 1971										
25...	--	3.5	670	--	5.5	.5	.9	.5	13	4.0
JULY										
22...	--	1.8	20	--	4.0	.3	.7	--	10	4.6
AUG.										
21...	--	--	--	--	3.9	.3	.6	.4	--	4.2
SEP.										
23...	--	2.6	--	--	5.2	.3	.6	.5	12	4.8
15226500 - LOWE RIVER NEAR VALDEZ (LAT 61 05 49 LONG 145 51 32)										
DEC., 1970										
02...	--	4.3	--	40	23	.9	1.5	2.9	52	22
ALLISON CREEK, PORT VALDEZ (LAT 61 05 04 LONG 146 21 05)										
SEP., 1971										
23...	--	3.2	--	--	6.0	.4	.8	.9	17	4.6
15227900 - JACKSON POINT, VALDEZ HARBOR (LAT 61 05 25 LONG 146 22 25)										
DEC., 1970										
01...	--	1.2	--	40	350	1140	9800	420	128	2440
JULY, 1971										
22...	--	--	--	--	--	--	--	--	46	--
AUG.										
21...	--	--	--	--	120	340	2900	117	--	756
SEP.										
22...	--	2.2	--	--	126	320	2640	106	52	645
15238600 - SPRUCE CREEK NEAR SEWARD (LAT 60 04 10 LONG 149 27 08)										
NOV., 1970										
10...	74	2.8	--	30	9.4	.3	1.4	.2	20	5.8
DEC.										
23...	7.0	2.8	30	--	13	.5	1.6	.1	32	8.9
MAY , 1971										
12...	14	--	--	--	--	--	--	--	31	--
15239500 - FRITZ CREEK NR HOMER (LAT 59 42 30 LONG 151 20 35)										
NOV., 1970										
12...	19	24	--	170	5.6	2.7	5.0	1.3	31	2.0
JUNE, 1971										
04...	--	13	3600	--	2.8	1.5	3.1	2.0	18	.4
15239800 - DIAMOND CREEK NR HOMER (LAT 59 40 10 LONG 151 40 00)										
NOV., 1970										
12...	14	18	--	220	3.6	1.5	5.0	.8	15	1.4
15239850 - BRIDGE CREEK NEAR HOMER (LAT 59 40 46 LONG 151 32 45)										
JUNE, 1971										
04...	--	8.0	230	--	3.8	.9	2.6	1.6	2	.6

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-CTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15212500 - BOULDER CREEK NEAR TIEKEL (LAT 61 20 08 LONG 145 18 26)										
AUG., 1971										
25...	2.5	.0	.1	34	26	8	57	7.1	10	7.0
SHEEP CREEK NEAR KEYSTONE CANYON @ RICH HWY (LAT 61 06 57 LONG 145 48 33)										
AUG., 1971										
21...	--	--	.1	--	--	--	--	--	--	--
15226000 - SOLOMON GULCH NEAR VALDEZ (LAT 61 05 LONG 146 19)										
MAY , 1971										
25...	1.4	.1	2.4	25	16	5	40	7.1	0	--
JULY										
22...	--	.1	.0	30	11	3	54	7.2	10	--
AUG.										
21...	--	--	.3	--	--	--	--	--	--	--
SEP.										
23...	1.0	.0	.6	22	14	4	32	7.2	0	5.5
15226500 - LOWE RIVER NEAR VALDEZ (LAT 61 05 49 LONG 145 51 32)										
DEC., 1970										
02...	2.0	.1	1.4	84	60	17	142	7.8	0	.0
ALLISON CREEK, PORT VALDEZ (LAT 61 05 04 LONG 146 21 05)										
SEP., 1971										
23...	1.0	.0	.0	25	16	2	41	7.2	0	5.0
15227900 - JACKSON POINT, VALDEZ HARBOR (LAT 61 05 25 LONG 146 22 25)										
DEC., 1970										
01...	17500	1.4	.8	31700	5570	5460	44700	7.9	0	5.0
JULY, 1971										
22...	3050	--	--	--	1090	1050	9600	7.1	--	--
AUG.										
21...	--	--	.2	--	--	--	--	--	--	--
SEP.										
22...	4850	.9	.0	8720	1630	1590	14500	7.7	0	10.5
15238600 - SPRUCE CREEK NEAR SEWARD (LAT 60 04 10 LONG 149 27 08)										
NOV., 1970										
10...	1.8	.3	1.2	33	24	8	61	7.4	5	3.0
DEC.										
23...	.5	.1	.9	44	34	8	78	7.4	0	1.0
MAY , 1971										
12...	--	--	--	--	32	7	75	7.3	--	1.0
15239500 - FRITZ CREEK NR HOMER (LAT 59 42 30 LONG 151 20 35)										
NOV., 1970										
12...	5.5	.2	1.6	63	25	0	73	7.3	10	1.5
JUNE, 1971										
04...	3.5	.1	1.4	37	13	0	43	6.6	10	--
15239800 - DIAMOND CREEK NR HOMER (LAT 59 40 10 LONG 151 40 00)										
NOV., 1970										
12...	6.8	.3	.4	45	15	3	54	7.1	10	--
15239850 - BRIDGE CREEK NEAR HOMER (LAT 59 40 46 LONG 151 32 45)										
JUNE, 1971										
04...	3.0	.0	17	39	13	11	40	6.3	10	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
				ALASKA WEST OF LONGITUDE 141°--Continued						
				15239880 - TWITTER CREEK NEAR HOMER (LAT 59 42 58 LONG 151 37 48)						
MAR., 1971										
22...	4.5	32	320	--	7.5	5.0	5.6	3.0	56	.6
				15240500 - COOK INLET TRIB NEAR NINILCHIK (LAT 59 58 45 LONG 151 43 20)						
NOV., 1970										
11...	4.9	15	--	170	3.0	1.6	4.4	.5	16	.2
				15241600 - NINILCHIK RIVER AT NINILCHIK (LAT 60 02 56 LONG 151 39 48)						
DEC., 1970										
21...	50	39	--	550	9.6	5.0	12	3.1	82	.2
				15258000 - KENAI RIVER AT COOPER LANDING (LAT 60 29 34 LONG 149 48 28)						
OCT., 1970										
01...	3660	4.8	150	--	14	.9	1.3	.7	30	14
DEC.										
20...	929	--	--	--	--	--	--	--	28	--
MAR., 1971										
19...	511	--	--	--	--	--	--	--	30	--
				15266300 - KENAI RIVER AT SOLDOTNA (LAT 60 28 39 LONG 151 04 46)						
JAN., 1971										
28...	1300	4.7	--	100	12	1.2	1.8	1.0	38	7.2
MAR.										
24...	1130	--	--	--	--	--	--	--	34	--
				15267300 - RESURRECTION CREEK NEAR HOPE (LAT 60 53 40 LONG 149 38 13)						
OCT., 1970										
29...	178	--	--	--	--	--	--	--	48	--
DEC.										
23...	127	--	--	--	--	--	--	--	52	--
APR., 1971										
01...	--	6.9	30	--	21	2.5	5.6	.2	60	8.2
MAY										
13...	204	--	--	--	--	--	--	--	40	--
				15272550 - GLACIER CREEK AT GIRDWOOD (LAT 60 56 29 LONG 149 09 44)						
OCT., 1970										
15...	118	3.7	--	30	19	2.3	2.4	.2	55	14
NOV.										
01...	1080	3.3	--	70	10	1.2	1.3	.3	28	5.3
DEC.										
01...	54	--	--	--	--	--	--	--	60	--
FEB., 1971										
08...	40	--	--	--	--	--	--	--	59	--
APR.										
20...	41	--	--	--	--	--	--	--	58	--
MAY										
25...	237	--	--	--	--	--	--	--	42	--
				RABBIT CREEK AT SEWARD HWY CROSSING (LAT 61 05 05 LONG 149 49 25)						
SEP., 1971										
10...	.5	.1	1.3	53	38	8	83	7.6	0	6.0
				RABBIT CREEK BELOW HILLSIDE DRIVE (LAT 61 05 50 LONG 149 44 00)						
SEP., 1971										
10...	.2	.1	1.5	49	35	9	74	7.6	5	4.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15239880 - TWITTER CREEK NEAR HOMER (LAT 59 42 58 LONG 151 37 48)										
MAR., 1971										
22...	5.5	.0	2.1	89	39	0	113	7.3	0	.0
15240500 - COOK INLET TRIB NEAR NINILCHIK (LAT 59 58 45 LONG 151 43 20)										
NOV., 1970										
11...	6.0	.0	.4	39	14	1	51	7.1	30	--
15241600 - NINILCHIK RIVER AT NINILCHIK (LAT 60 02 56 LONG 151 39 48)										
DEC., 1970										
21...	3.5	.2	1.5	115	45	0	141	7.9	10	.0
15258000 - KENAI RIVER AT COOPER LANDING (LAT 60 29 34 LONG 149 48 28)										
OCT., 1970										
01...	1.5	.2	.7	53	38	13	78	7.7	5	--
DEC.										
20...	--	--	--	--	32	9	76	7.7	--	2.0
MAR., 1971										
19...	--	--	--	--	36	11	82	7.6	--	1.0
15266300 - KENAI RIVER AT SOLDOTNA (LAT 60 28 39 LONG 151 04 46)										
JAN., 1971										
28...	.0	.4	1.0	48	35	4	83	7.1	0	.0
MAR.										
24...	--	--	--	--	35	7	80	7.3	--	.0
15267900 - RESURRECTION CREEK NEAR HOPE (LAT 60 53 40 LONG 149 38 13)										
OCT., 1970										
29...	--	--	--	--	47	8	109	7.8	--	.0
DEC.										
23...	--	--	--	--	52	9	121	7.9	--	.0
APR., 1971										
01...	10	.1	1.2	86	63	14	151	7.8	0	.0
MAY										
13...	--	--	--	--	42	9	94	7.4	--	.5
15272550 - GLACIER CREEK AT GIRDWOOD (LAT 60 56 29 LONG 149 09 44)										
OCT., 1970										
15...	1.8	.2	.5	71	58	13	131	7.7	5	1.5
NOV.										
01...	.8	.2	3.1	40	30	7	68	7.3	10	2.0
DEC.										
01...	--	--	--	--	65	16	135	7.9	--	.0
FEB., 1971										
08...	--	--	--	--	63	15	135	7.8	--	--
APR.										
20...	--	--	--	--	57	9	126	7.9	--	--
MAY										
26...	--	--	--	--	42	8	88	7.5	--	3.0
RABBIT CREEK AT SEWARD HWY CROSSING (LAT 61 05 05 LONG 149 49 25)										
SEP., 1971										
10...	--	7.7	--	10	12	2.0	1.6	.3	37	9.2
RABBIT CREEK BELOW HILLSIDE DRIVE (LAT 61 05 50 LONG 149 44 00)										
SEP., 1971										
10...	--	7.5	--	0	11	1.8	1.4	.2	32	9.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15273900 - SF CAMPBELL CREEK AT CAN MOUTH NR ANCHORAGE (LAT 61 08 52 LONG 149 43 12)										
OCT., 1970										
12...	37	5.8	--	0	12	1.7	1.2	.2	28	9.8
FEB., 1971										
05...	14	7.0	40	--	13	2.3	1.6	.2	33	13
MAY										
18...	12	7.5	--	50	13	2.6	1.5	.5	42	12
JULY										
13...	230	--	--	--	--	--	--	--	18	--
15274300 - NF CAMPBELL CREEK NEAR ANCHORAGE (LAT 61 10 14 LONG 149 45 40)										
MAY , 1971										
18...	5.3	8.5	--	200	22	3.8	2.9	.9	60	21
15274600 - CAMPBELL CREEK NEAR SPENARD (LAT 61 08 17 LONG 149 55 20)										
OCT., 1970										
12...	59	6.8	--	70	16	2.9	1.9	.4	47	13
16...	--	7.1	--	130	16	3.0	1.9	.3	48	14
NOV.										
30...	43	--	--	--	--	--	--	--	49	--
MAY , 1971										
18...	28	7.5	--	270	15	3.3	2.2	1.0	49	13
SEP.										
02...	117	--	--	--	--	--	--	--	43	--
15274770 - HOOD CREEK AT NO LIGHTS BLVD, ANCHORAGE (LAT 61 11 45 LONG 150 58 50)										
OCT., 1970										
19...	--	13	--	5600	16	6.5	5.0	1.2	69	4.6
15274790 - FISH CREEK AT NORTHERN LIGHTS BLVD, ANCHORAGE (LAT 61 11 45 LONG 149 56 30)										
OCT., 1970										
16...	--	15	--	180	30	10	8.5	1.9	108	20
15274990 - GOOSE LAKE NR. ANCHORAGE (LAT 61 11 47 LONG 149 49 03)										
NOV., 1970										
06...	--	.0	--	50	6.2	1.5	1.8	.5	20	3.0
15275000 - CHESTER CREEK AT ANCHORAGE (LAT 61 11 59 LONG 149 50 07)										
OCT., 1970										
09...	11	--	--	--	--	--	--	--	107	--
DEC.										
01...	1.9	--	--	--	--	--	--	--	97	--
15275100 - CHESTER CREEK AT ARCTIC BLVD AT ANCHORAGE (LAT 61 12 19 LONG 149 53 43)										
OCT., 1970										
09...	12	--	--	--	--	--	--	--	81	--
16...	--	13	--	380	30	7.7	6.0	.8	95	27
FEB., 1971										
03...	2.2	17	--	460	36	9.6	8.3	1.1	121	29
15276000 - SHIP CREEK NEAR ANCHORAGE (FT. RICH) (LAT 61 13 25 LONG 149 37 55)										
OCT., 1970										
09...	83	--	--	--	--	--	--	--	54	--
16...	66	6.7	--	40	22	3.1	2.2	.2	59	20
FEB., 1971										
02...	19	--	--	--	--	--	--	--	64	--
MAY										
17...	33	--	--	--	--	--	--	--	54	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15273900 - SF CAMPBELL CREEK AT CAN MOUTH NR ANCHORAGE (LAT 61 08 52 LONG 149 43 12)										
OCT., 1970										
12...	1.8	.2	.4	47	36	13	81	7.3	5	1.5
FEB., 1971										
05...	.8	.0	.6	58	42	11	98	7.5	0	.0
MAY										
18...	1.0	.2	1.2	61	43	9	101	7.4	10	2.0
JULY										
13...	--	--	--	--	20	5	44	7.3	--	9.5
15274300 - NF CAMPBELL CREEK NEAR ANCHORAGE (LAT 61 10 14 LONG 149 45 40)										
MAY , 1971										
18...	1.2	.1	3.3	94	71	22	147	7.2	10	3.5
15274600 - CAMPBELL CREEK NEAR SPENARD (LAT 61 08 17 LONG 149 55 20)										
OCT., 1970										
12...	.5	.2	.5	65	51	12	109	7.5	5	3.5
16...	1.8	.0	.4	69	52	13	114	7.9	10	--
NOV.										
30...	--	--	--	--	60	20	124	7.8	--	.0
MAY , 1971										
18...	2.0	.2	1.2	70	52	12	115	7.1	5	1.5
SEP.										
02...	--	--	--	--	47	12	103	7.6	--	7.0
15274770 - HOOD CREEK AT NO LIGHTS BLVD, ANCHORAGE (LAT 61 11 45 LONG 150 58 50)										
OCT., 1970										
19...	6.2	.1	4.5	97	67	10	148	8.0	100	--
15274790 - FISH CREEK AT NORTHERN LIGHTS BLVD, ANCHORAGE (LAT 61 11 45 LONG 149 56 30)										
OCT., 1970										
16...	18	.1	1.0	159	116	27	267	8.3	20	3.0
15274990 - GOOSE LAKE NR. ANCHORAGE (LAT 61 11 47 LONG 149 49 03)										
NOV., 1970										
06...	4.0	.1	1.4	28	22	6	49	7.2	10	--
15275000 - CHESTER CREEK AT ANCHORAGE (LAT 61 11 59 LONG 149 50 07)										
OCT., 1970										
09...	--	--	--	--	98	10	195	8.2	--	3.0
DEC.										
01...	--	--	--	--	116	36	240	8.1	--	.0
15275100 - CHESTER CREEK AT ARCTIC BLVD AT ANCHORAGE (LAT 61 12 19 LONG 149 53 43)										
OCT., 1970										
09...	--	--	--	--	109	43	228	8.1	--	3.5
16...	9.0	.0	.8	143	107	29	237	8.0	20	3.0
FEB., 1971										
03...	12	.1	3.4	177	128	29	284	7.9	20	.0
15276000 - SHIP CREEK NEAR ANCHORAGE (FT. RICH) (LAT 61 13 25 LONG 149 37 55)										
OCT., 1970										
09...	--	--	--	--	66	21	136	7.9	--	2.5
16...	.8	.0	.2	84	68	20	142	7.6	0	1.0
FEB., 1971										
02...	--	--	--	--	74	22	149	7.6	--	.0
MAY										
17...	--	--	--	--	55	11	118	7.8	--	2.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15276600 - SHIP CREEK AT POST ROAD AT ANCHORAGE (LAT 61 13 27 LONG 149 51 12)										
OCT., 1970										
16...	--	8.3	--	60	27	4.4	3.0	.5	84	18
15281000 - KNIK RIVER NEAR PALMER (LAT 61 30 21 LONG 149 01 53)										
OCT., 1970										
13...	2320	2.3	--	30	26	3.2	2.4	.5	68	22
MAR., 1971										
09...	449	--	--	--	--	--	--	--	90	--
15282400 - PURITAN CREEK NEAR SUTTON (LAT 61 48 42 LONG 148 08 01)										
JULY, 1971										
07...	15	5.3	--	190	30	7.2	22	.8	151	23
AUG.										
26...	18	5.4	--	360	30	7.2	24	.8	162	23
SEP.										
30...	10	6.6	40	--	37	8.8	26	.9	183	31
15290000 - LITTLE SUSITNA RIVER NEAR PALMER (LAT 61 42 32 LONG 149 13 36)										
MAR., 1971										
25...	19	6.3	80	--	14	3.0	12	1.0	44	5.6
APR.										
26...	19	5.5	50	--	15	3.1	12	1.0	47	5.6
15292700 - TALKEETNA RIVER NEAR TALKEETNA (LAT 62 20 49 LONG 150 01 01) (Hydrologic bench-mark station)										
JAN., 1971										
06...	854	8.4	--	30	22	2.5	12	1.4	55	13
APR.										
01...	420	8.3	--	30	22	2.7	13	1.4	54	13
MAY										
18...	1300	7.0	150	--	17	1.9	11	1.2	42	12
JULY										
02...	12900	5.3	--	110	6.8	1.3	2.7	.5	25	5.0
AUG.										
10...	67900	--	--	--	--	--	--	--	29	--
12...	25600	6.9	70	--	12	1.6	2.9	1.3	40	4.8
SEP.										
29...	3390	7.5	--	0	14	1.8	6.6	.9	42	9.4
15292800 - MONTANA CREEK NEAR MONTANA (LAT 62 06 32 LONG 150 03 12)										
SEP., 1971										
17...	376	9.1	--	100	4.7	.7	1.8	.6	16	1.4
15293000 - CASWELL CREEK NEAR CASWELL (LAT 61 56 55 LONG 150 03 14)										
SEP., 1971										
16...	35	14	--	290	5.8	1.3	2.0	.7	26	.6
15294500 - CHAKACHATNA RIVER NEAR TYONEK (LAT 61 12 44 LONG 152 21 26)										
JULY, 1971										
06...	13100	4.6	60	--	9.2	1.1	1.5	1.6	24	9.4
29...	9890	4.9	100	--	8.8	1.2	1.5	1.6	24	9.2
SEP.										
08...	5740	4.7	110	--	8.6	1.2	1.4	1.6	23	9.6
15296000 - UGANIK RIVER NEAR KODIAK (LAT 57 41 29 LONG 153 25 10)										
JAN., 1971										
06...	276	4.3	--	50	6.2	.9	2.3	.2	20	4.4
MAY										
26...	760	--	--	--	--	--	--	--	20	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15276600 - SHIP CREEK AT POST ROAD AT ANCHORAGE (LAT 61 13 27 LONG 149 51 12)										
OCT., 1970										
16...	2.8	.0	.0	106	86	17	180	7.9	0	4.0
15281000 - KNIK RIVER NEAR PALMER (LAT 61 30 21 LONG 149 01 53)										
OCT., 1970										
13...	1.2	.1	.2	91	78	22	167	7.8	5	3.0
MAR., 1971										
09...	--	--	--	--	96	22	204	7.9	--	.0
15282400 - PURITAN CREEK NEAR SUTTON (LAT 61 48 42 LONG 148 08 01)										
JULY, 1971										
07...	1.0	.1	.1	164	105	0	274	8.0	10	9.0
AUG.										
26...	.5	.1	.3	172	105	0	289	8.2	5	9.0
SEP.										
30...	1.0	.2	.6	202	128	0	335	8.0	5	2.0
15290000 - LITTLE SUSITNA RIVER NEAR PALMER (LAT 61 42 32 LONG 149 13 36)										
MAR., 1971										
25...	22	.0	1.6	88	48	12	154	7.3	0	.5
APR.										
26...	23	.2	2.1	90	51	12	160	7.8	5	1.0
15292700 - TALKEETNA RIVER NEAR TALKEETNA (LAT 62 20 49 LONG 150 01 01) (Hydrologic bench-mark station)										
JAN., 1971										
06...	23	.0	2.0	111	66	21	198	7.9	0	.0
APR.										
01...	26	.3	2.5	116	67	23	210	7.5	5	--
MAY										
18...	20	.2	2.1	94	51	17	159	7.6	0	4.0
JULY										
02...	2.9	.1	1.5	38	22	2	62	7.2	5	7.5
AUG.										
10...	--	--	--	--	36	12	69	7.3	--	8.5
12...	3.5	.1	1.1	54	44	11	79	7.6	35	7.5
SEP.										
29...	9.2	.1	.9	71	42	8	120	7.7	5	--
15292800 - MONTANA CREEK NEAR MONTANA (LAT 62 06 32 LONG 150 03 12)										
SEP., 1971										
17...	2.0	.1	1.0	29	15	2	39	7.2	5	8.5
15293000 - CASWELL CREEK NEAR CASWELL (LAT 61 56 55 LONG 150 03 14)										
SEP., 1971										
16...	1.5	.0	.8	40	20	0	47	7.2	10	6.0
15294500 - CHAKACHATNA RIVER NEAR TYONEK (LAT 61 12 44 LONG 152 21 26)										
JULY, 1971										
06...	1.5	.2	.0	41	28	8	66	7.3	5	3.5
29...	1.2	.1	1.0	42	27	7	65	7.0	10	5.0
SEP.										
08...	1.0	.1	.0	39	26	7	62	7.3	10	--
15296000 - UGANIK RIVER NEAR KODIAK (LAT 57 41 29 LONG 153 25 10)										
JAN., 1971										
06...	2.0	.3	1.5	32	19	3	52	7.4	0	--
MAY										
26...	--	--	--	--	20	4	53	7.2	--	5.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15297200 - MYRTLE CREEK NEAR KODIAK (LAT 57 36 16 LONG 152 24 09)										
OCT., 1970										
13...	22	5.6	--	0	3.0	.6	3.3	.3	11	3.7
NOV.										
10...	186	--	--	--	--	--	--	--	6	--
11...	248	--	--	--	--	--	--	--	5	--
JAN., 1971										
05...	51	--	--	--	--	--	--	--	8	--
MAR.										
18...	3.8	4.7	--	40	4.5	1.0	5.2	.3	9	2.4
MAY										
25...	301	--	--	--	--	--	--	--	7	--
15297500 - RED CLOUD CREEK TRIB NEAR KODIAK (LAT 57 49 00 LONG 152 37 20)										
JULY, 1971										
21...	--	3.0	--	--	--	--	1.8	.3	8	--
15297767 - LAKE CREEK AT SHEMYA AFB (LAT 52 42 56 LONG 174 05 39)										
OCT., 1970										
04...	--	8.0	240	--	22	9.8	44	2.9	121	19
NOV.										
23...	--	10	320	--	23	8.7	45	3.1	103	19
JAN., 1971										
10...	2.2	13	--	370	24	11	54	2.9	112	22
FEB.										
12...	3.5	12	--	290	31	12	53	2.8	149	23
APR.										
06...	--	13	630	--	23	13	49	3.0	136	22
15297771 - GALLERY SPRING AT SHEMYA AFB (LAT 52 43 06 LONG 174 07 10)										
NOV., 1970										
23...	--	18	170	--	26	12	39	3.3	125	14
JAN., 1971										
10...	.05	20	380	--	28	13	41	3.4	142	12
FEB.										
12...	.11	15	--	370	26	13	40	3.3	135	12
APR.										
06...	--	19	260	--	24	12	39	3.1	129	12
15297773 - GALLERY CREEK AT SHEMYA AFB (LAT 52 42 42 LONG 174 07 18)										
NOV., 1970										
23...	--	8.9	250	--	20	6.3	31	2.4	79	11
JAN., 1971										
10...	1.3	12	--	300	32	9.0	47	2.5	100	15
FEB.										
11...	1.7	8.1	--	720	25	8.3	38	2.0	82	12
APR.										
06...	--	20	70	--	34	12	39	3.0	149	13
NAKNEK R BELOW FAA STA NR KING SALMON (LAT 58 40 16 LONG 156 39 33)										
JAN., 1971										
15...	--	6.5	20	--	23	3.7	8.0	1.3	47	38
15297900 - ESKIMO CREEK AT KING SALMON (LAT 58 41 08 LONG 156 40 08)										
JULY, 1971										
07...	9.4	14	80	--	8.2	3.2	6.7	1.1	42	6.7
SEP.										
17...	19	14	--	690	6.6	2.7	5.7	.7	36	3.4

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15297200 - MYRTLE CREEK NEAR KODIAK (LAT 57 36 16 LONG 152 24 09)										
OCT., 1970										
13...	3.5	.3	1.3	27	10	1	41	6.9	0	7.0
NOV.										
10...	--	--	--	--	11	6	45	7.2	--	--
11...	--	--	--	--	12	8	41	7.3	--	4.5
JAN., 1971										
05...	--	--	--	--	10	3	41	7.5	--	1.0
MAR.										
18...	11	.0	1.4	35	16	9	60	7.1	0	.5
MAY										
25...	--	--	--	--	8	3	31	6.6	--	.5
15297500 - RED CLOUD CREEK TRIB NEAR KODIAK (LAT 57 49 00 LONG 152 37 20)										
JULY, 1971										
21...	2.5	.0	.0	--	6	0	24	7.0	--	7.0
15297767 - LAKE CREEK AT SHEMYA AFB (LAT 52 42 56 LONG 174 05 39)										
OCT., 1970										
04...	50	.3	3.5	220	96	0	390	7.2	50	8.0
NOV.										
23...	64	.2	1.8	227	94	10	402	7.7	20	--
JAN., 1971										
10...	76	.1	4.0	264	106	14	467	8.0	10	2.0
FEB.										
12...	66	.3	5.7	279	127	5	489	7.3	10	.5
APR.										
06...	59	.2	10	260	110	0	444	7.0	10	4.0
15297771 - GALLERY SPRING AT SHEMYA AFB (LAT 52 43 06 LONG 174 07 10)										
NOV., 1970										
23...	58	.1	.0	233	114	12	399	7.9	10	5.5
JAN., 1971										
10...	63	.1	.0	252	124	8	436	8.1	5	4.0
FEB.										
12...	61	.1	.0	237	119	8	421	8.2	0	3.5
APR.										
06...	58	.1	.0	231	110	4	409	7.4	5	3.5
15297773 - GALLERY CREEK AT SHEMYA AFB (LAT 52 42 42 LONG 174 07 18)										
NOV., 1970										
23...	50	.1	.9	171	76	11	307	7.7	20	7.0
JAN., 1971										
10...	87	.1	5.0	261	117	35	474	8.1	10	4.0
FEB.										
11...	70	.1	2.2	207	95	28	378	7.9	20	1.5
APR.										
06...	60	.1	3.0	258	135	13	446	7.4	5	4.5
NAKNEK R BELOW FAA STA NR KING SALMON (LAT 58 40 16 LONG 156 39 33)										
JAN., 1971										
15...	9.6	.4	.3	114	72	33	200	7.6	--	--
15297900 - ESKIMO CREEK AT KING SALMON (LAT 58 41 08 LONG 156 40 08)										
JULY, 1971										
07...	4.2	.1	.3	66	34	0	95	6.9	5	7.5
SEP.										
17...	4.2	.1	.8	57	28	0	78	7.0	40	6.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15300500 - KVICHAK RIVER AT IGIUGIG (LAT 59 19 44 LONG 155 53 57)										
JULY, 1971										
07...	20600	1.3	--	20	5.6	.8	1.5	.5	18	3.6
AUG.										
17...	37200	--	--	--	--	--	--	--	18	--
SEP.										
17...	38000	1.4	--	40	5.5	.9	1.5	.5	20	3.4
NUSHAGAK R AT PORTAGE C NR DILLINGHAM (LAT 58 54 21 LONG 157 44 30)										
JAN., 1971										
13...	--	8.3	0	--	6.9	1.9	2.5	.4	29	4.1
15302900 - MOODY CREEK AT ALEKNAGIK (LAT 59 16 34 LONG 158 35 42)										
JULY, 1971										
07...	--	9.4	--	40	6.4	1.2	1.8	.2	25	2.6
15303000 - WOOD RIVER AT ALEKNAGIK (LAT 59 16 30 LONG 158 35 37)										
JAN., 1971										
13...	--	5.0	0	--	6.8	1.2	1.5	.2	21	4.1
13...	--	3.0	0	--	5.4	.8	1.2	.4	16	4.7
15303010 - SILVER SALMON CREEK NEAR ALEKNAGIK (LAT 59 14 34 LONG 158 40 21)										
SEP., 1971										
17...	14	7.5	--	100	5.6	1.0	1.6	.1	19	3.4
15303600 - KUSKOKWIM RIVER AT MC GRATH (LAT 62 57 10 LONG 155 35 11)										
SEP., 1971										
25...	13500	9.2	--	80	45	14	2.5	1.2	159	35
15304000 - KUSKOKWIM RIVER AT CROOKED CREEK (LAT 61 52 10 LONG 158 06 42)										
MAR., 1971										
23...	9490	--	--	--	--	--	--	--	141	--
JULY										
08...	69100	--	--	--	--	--	--	--	97	--
AUG.										
16...	160000	--	--	--	--	--	--	--	103	--
15304300 - KUSKOKWIM RIVER AT BETHEL (LAT 60 47 30 LONG 161 45 00)										
JAN., 1971										
11...	--	12	30	--	7.4	1.8	2.3	.5	30	3.9
15305950 - TAYLOR CREEK NEAR CHICKEN (LAT 63 54 27 LONG 142 12 58)										
JUNE, 1971										
13...	1.8	11	260	--	5.2	1.9	2.2	.7	23	.2
15356000 - YUKON RIVER AT EAGLE (LAT 64 47 22 LONG 141 11 52)										
OCT., 1970										
12...	84100	7.0	140	--	27	7.8	2.2	.9	93	24
15389500 - CHANDALAR RIVER NEAR VENETIE (LAT 67 05 49 LONG 147 11 04)										
NOV., 1970										
14...	--	3.9	--	0	52	7.6	1.1	1.1	175	17

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15300500 - KVICHAK RIVER AT IGIUGIG (LAT 59 19 44 LONG 155 53 57)										
JULY, 1971										
07...	2.0	.0	.1	24	18	3	43	7.2	0	5.0
AUG.										
17...	--	--	--	--	16	1	43	7.1	--	.0
SEP.										
17...	1.8	.1	.1	25	17	1	43	7.1	5	9.0
NUSHAGAK R AT PORTAGE C NR DILLINGHAM (LAT 58 54 21 LONG 157 44 30)										
JAN., 1971										
13...	1.2	.2	.0	40	25	1	61	7.6	--	--
15302900 - MOODY CREEK AT ALEKNAGIK (LAT 59 16 34 LONG 158 35 42)										
JULY, 1971										
07...	1.5	.0	.0	35	21	1	50	6.9	0	3.0
15303000 - WOOD RIVER AT ALEKNAGIK (LAT 59 16 30 LONG 158 35 37)										
JAN., 1971										
13...	1.5	.2	2.3	33	22	5	53	7.5	--	--
13...	1.2	.1	.6	25	17	4	42	7.2	--	--
15303010 - SILVER SALMON CREEK NEAR ALEKNAGIK (LAT 59 14 34 LONG 158 40 21)										
SEP., 1971										
17...	1.8	.0	.4	31	18	2	43	6.8	10	6.0
15303600 - KUSKOKWIM RIVER AT MC GRATH (LAT 62 57 10 LONG 155 35 11)										
SEP., 1971										
25...	.8	.1	.0	186	169	39	312	7.8	10	5.0
15304000 - KUSKOKWIM RIVER AT CROOKED CREEK (LAT 61 52 10 LONG 158 06 42)										
MAR., 1971										
23...	--	--	--	--	132	16	254	7.4	--	.0
JULY										
08...	--	--	--	--	94	14	187	7.8	--	13.5
AUG.										
16...	--	--	--	--	100	16	198	7.4	--	12.5
15304300 - KUSKOKWIM RIVER AT BETHEL (LAT 60 47 30 LONG 161 45 00)										
JAN., 1971										
11...	1.2	.1	.0	44	26	1	62	7.5	--	--
15305950 - TAYLOR CREEK NEAR CHICKEN (LAT 63 54 27 LONG 142 12 58)										
JUNE, 1971										
18...	.5	.2	.3	33	21	2	44	7.2	70	8.5
15356000 - YUKON RIVER AT EAGLE (LAT 64 47 22 LONG 141 11 52)										
OCT., 1970										
12...	.5	.1	.0	116	100	24	195	8.2	10	1.0
15389500 - CHANDALAR RIVER NEAR VENETIE (LAT 67 05 49 LONG 147 11 04)										
NOV., 1970										
14...	.6	.1	.4	170	162	18	294	7.9	0	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15439800 - BOULDER CREEK NEAR CENTRAL (LAT 65 34 05 LONG 144 53 13)										
MAY , 1971										
19...	204	--	--	--	--	--	--	--	13	--
15453500 - YUKON RIVER AT LIVENGOOD-YUKON ROAD (LAT 65 52 15 LONG 149 40 00)										
NOV., 1970										
12...	--	6.2	--	80	33	8.5	2.6	1.0	121	23
AUG., 1971										
28...	--	--	--	--	41	6.9	2.4	1.2	--	22
15470000 - CHISANA RIVER AT NORTHWAY JUNCTION (LAT 63 00 23 LONG 141 48 17)										
JUNE, 1971										
20...	3420	7.2	320	--	35	5.6	4.3	1.0	116	19
AUG.										
27...	3900	7.9	310	--	36	5.9	4.4	1.0	118	25
DOT LAKE AT DOT VILLAGE NEAR TOK (LAT 63 39 45 LONG 144 04 00)										
APR., 1971										
09...	--	15	100	--	50	7.5	2.5	2.3	176	14
15476300 - BERRY CREEK NEAR DOT LAKE (LAT 63 41 24 LONG 144 21 50)										
JULY, 1971										
28...	--	5.9	50	--	11	1.7	2.3	1.0	42	3.8
15478010 - ROCK CREEK NEAR PAXSON (LAT 63 04 16 LONG 146 06 17)										
JULY, 1971										
11...	70	5.7	--	20	2.9	1.0	.9	.2	16	.0
AUG.										
21...	80	7.2	0	--	3.1	1.2	.6	.1	15	.2
15478030 - FISH CREEK NEAR SUMMIT (MI 191 RICH HWY) (LAT 63 06 25 LONG 145 30 00)										
DEC., 1970										
04...	--	9.4	--	120	12	1.9	2.7	.8	49	2.3
MAY , 1971										
27...	--	9.5	130	--	10	1.9	1.8	1.0	42	.4
JULY										
24...	--	.4	30	--	7.0	1.3	1.7	--	29	.9
24...	--	.1	--	--	7.2	1.2	1.6	.4	29	.6
SEP.										
25...	--	6.0	--	--	8.3	1.4	2.0	.4	36	1.2
25...	--	6.0	--	--	8.8	1.4	2.1	--	36	1.4
15478040 - PHELAN CREEK NEAR PAXSON (LAT 63 14 27 LONG 145 27 50)										
AUG., 1971										
21...	--	--	--	--	25	2.8	1.6	1.2	--	13
SHAW CREEK ON ARMY PIPELINE CROSS NR DELTA J (LAT 64 16 04 LONG 146 05 35)										
JUNE , 1971										
14...	--	10	--	510	14	5.0	2.4	1.2	56	11
AUG.										
09...	--	13	--	--	17	6.0	2.8	1.1	71	16
22...	--	--	--	--	19	6.0	2.8	1.0	--	11
SHAW CREEK ABOVE RICHARDSON HWY (LAT 64 15 39 LONG 146 06 19)										
SEP., 1971										
24...	--	13	--	--	18	6.5	3.1	4.7	82	12

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15439800 - BOULDER CREEK NEAR CENTRAL (LAT 65 34 05 LONG 144 53 13)										
MAY , 1971										
19...	--	--	--	--	21	10	43	6.8	--	.0
15453500 - YUKON RIVER AT LIVENGOOD-YUKON ROAD (LAT 65 52 15 LONG 149 40 00)										
NOV., 1970										
12...	.5	.2	.3	135	117	18	232	7.9	0	.0
AUG., 1971										
28...	--	--	.3	--	--	--	--	--	--	--
15470000 - CHISANA RIVER AT NORTHWAY JUNCTION (LAT 63 00 23 LONG 141 48 17)										
JUNE, 1971										
20...	2.0	.2	.1	131	111	16	224	7.7	5	15.5
AUG.										
27...	1.5	.1	.2	140	115	18	239	7.7	10	9.5
DOT LAKE AT DOT VILLAGE NEAR TOK (LAT 63 39 45 LONG 144 04 00)										
APR., 1971										
09...	2.0	.2	3.7	185	156	12	303	8.0	5	--
15476300 - BERRY CREEK NEAR DOT LAKE (LAT 63 41 24 LONG 144 21 50)										
JULY, 1971										
28...	.5	.5	.3	48	34	0	79	7.5	10	2.5
15478010 - ROCK CREEK NEAR PAXSON (LAT 63 04 16 LONG 146 06 17)										
JULY, 1971										
11...	.5	.0	.1	19	11	0	25	7.3	0	13.0
AUG.										
21...	2.0	.0	.0	22	12	0	26	7.2	10	10.5
15478030 - FISH CREEK NEAR SUMMIT (MI 191 RICH HWY) (LAT 63 06 25 LONG 145 30 00)										
DEC., 1970										
04...	.5	.3	1.2	55	38	0	87	7.8	5	.0
MAY , 1971										
27...	.5	.0	1.7	48	34	0	72	7.2	10	.5
JULY										
24...	--	.1	1.3	35	23	0	74	7.2	10	--
24...	1.0	.1	.7	29	23	0	54	7.4	0	--
SEP.										
25...	.5	.0	.1	38	26	0	62	7.4	5	1.5
25...	--	.0	.2	45	28	0	75	7.3	5	3.0
15478040 - PHELAN CREEK NEAR PAXSON (LAT 63 14 27 LONG 145 27 50)										
AUG., 1971										
21...	--	--	.1	--	--	--	--	--	--	--
SHAW CREEK ON ARMY PIPELINE CROSS NR DELTA J (LAT 64 16 04 LONG 146 05 35)										
JUNE, 1971										
14...	1.0	.2	.1	73	57	11	119	7.9	--	--
AUG.										
09...	.2	.1	1.1	92	67	9	139	7.7	10	--
22...	--	--	1.0	--	--	--	--	--	--	--
SHAW CREEK ABOVE RICHARDSON HWY (LAT 64 15 39 LONG 146 06 19)										
SEP., 1971										
24...	4.0	.2	.5	102	72	5	168	8.0	30	4.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
MINTON CREEK, RIGHT TRIB. NR PIPELINE CROSS (LAT 64 23 43 LONG 146 16 00)										
AUG., 1971										
22...	--	--	--	--	18	7.9	3.8	1.0	--	35
MINTON CREEK, LEFT TRIB. AT PIPELINE CROSSING (LAT 64 23 56 LONG 146 16 30)										
AUG., 1971										
22...	--	--	--	--	13	3.7	3.2	1.3	--	20
15484000 - SALCHA RIVER NEAR SALCHAKET (LAT 64 28 22 LONG 146 55 26)										
APR., 1971										
19...	305	5.0	--	130	14	4.4	1.9	1.6	48	15
MAY										
20...	10700	--	--	--	--	--	--	--	23	--
JUNE										
14...	--	5.4	150	--	12	3.1	1.2	.8	39	10
14...	--	5.5	50	--	12	3.1	1.2	.8	39	9.4
AUG.										
09...	--	6.9	110	--	16	4.3	1.5	.9	53	14
09...	--	8.1	120	--	16	4.2	1.5	.8	52	13
24...	2660	7.2	250	--	17	4.5	1.6	.9	57	15
15490000 - MONUMENT CREEK AT CHENA HOT SPRINGS (LAT 65 03 15 LONG 146 03 15)										
SEP., 1971										
29...	30	8.0	--	220	9.0	1.3	1.5	.5	30	4.9
15493000 - CHENA RIVER NEAR TWO RIVERS (LAT 64 53 55 LONG 146 24 42)										
SEP., 1971										
29...	902	7.2	--	110	22	4.4	1.6	.8	69	19
15494000 - CHENA RIVER NEAR FAIRBANKS (LAT 64 50 30 LONG 147 20 20)										
NOV., 1970										
09...	--	7.0	--	200	24	5.1	1.9	1.0	76	20
JUNE, 1971										
07...	--	4.1	140	--	13	2.4	1.0	.6	39	9.6
AUG.										
08...	--	--	--	--	--	--	--	--	71	--
15511000 - LITTLE CHENA RIVER NEAR FAIRBANKS (LAT 64 53 10 LONG 147 14 50)										
FEB., 1971										
02...	48	7.5	--	500	18	4.5	2.4	1.0	59	18
MAY										
07...	950	3.5	300	--	6.6	2.2	.8	1.2	22	2.8
10...	719	4.1	--	350	7.6	2.5	1.2	1.2	26	7.6
13...	1890	2.8	--	370	5.1	1.5	.4	.9	16	3.8
15511500 - STEELE CREEK NEAR FAIRBANKS (LAT 64 53 36 LONG 147 29 12)										
SEP., 1971										
30...	5.7	13	380	--	18	6.3	4.0	1.0	70	16
15514500 - WOOD RIVER NEAR FAIRBANKS (LAT 64 26 06 LONG 148 12 46)										
APR., 1971										
23...	156	13	--	130	32	6.8	2.3	1.2	116	14
JUNE										
05...	413	--	--	--	--	--	--	--	105	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
MINTON CREEK, RIGHT TRIB. NR PIPELINE CROSS (LAT 64 23 43 LONG 146 16 00)										
AUG., 1971										
22...	--	--	1.0	--	--	--	--	--	--	--
MINTON CREEK, LEFT TRIB. AT PIPELINE CROSSING (LAT 64 23 56 LONG 146 16 30)										
AUG., 1971										
22...	--	--	1.0	--	--	--	--	--	--	--
15484000 - SALCHA RIVER NEAR SALCHAKET (LAT 64 28 22 LONG 146 55 26)										
APR., 1971										
19...	.0	.1	1.7	68	53	14	118	6.8	10	.0
MAY										
20...	--	--	--	--	27	8	57	6.6	--	4.0
JUNE										
14...	1.0	.1	.8	53	42	10	87	7.6	15	--
14...	2.0	.1	.6	54	42	10	87	7.6	20	--
AUG.										
09...	1.2	.1	1.0	72	58	15	117	7.7	15	--
09...	1.8	.1	1.0	73	58	15	117	7.5	15	--
24...	.5	.1	1.3	76	61	13	125	7.6	15	10.5
15490000 - MONUMENT CREEK AT CHENA HOT SPRINGS (LAT 65 03 15 LONG 146 03 15)										
SEP., 1971										
29...	.0	.1	2.5	43	28	3	66	7.4	5	1.5
15493000 - CHENA RIVER NEAR TWO RIVERS (LAT 64 53 55 LONG 146 24 42)										
SEP., 1971										
29...	.5	.2	1.0	91	73	16	156	7.7	10	2.0
15494000 - CHENA RIVER NEAR FAIRBANKS (LAT 64 50 30 LONG 147 20 20)										
NOV., 1970										
09...	.2	.3	1.5	98	80	18	168	7.5	0	--
JUNE, 1971										
07...	.5	.1	.9	51	42	10	87	7.7	20	--
AUG.										
08...	--	--	--	--	74	16	154	7.6	--	--
15511000 - LITTLE CHENA RIVER NEAR FAIRBANKS (LAT 64 53 10 LONG 147 14 50)										
FEB., 1971										
02...	.8	.1	.9	84	64	16	139	7.0	10	.0
MAY										
07...	1.2	.3	.7	30	26	8	56	7.0	30	.0
10...	1.5	.3	.7	40	29	8	69	6.3	30	.0
13...	1.0	.3	.6	25	19	6	42	7.0	50	.0
15511500 - STEELE CREEK NEAR FAIRBANKS (LAT 64 53 36 LONG 147 29 12)										
SEP., 1971										
30...	.5	.3	1.2	94	70	13	151	7.2	55	1.5
15514500 - WOOD RIVER NEAR FAIRBANKS (LAT 64 26 06 LONG 148 12 46)										
APR., 1971										
23...	.0	.3	1.0	128	108	13	212	7.7	5	.0
JUNE										
05...	--	--	--	--	129	43	256	8.0	--	11.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15515500 - TANANA RIVER AT NENANA (LAT 64 33 55 LONG 149 05 30)										
OCT., 1970										
15...	15000	12	--	170	38	8.8	4.3	1.8	137	25
FEB., 1971										
11...	6190	--	--	--	--	--	--	--	152	--
MAY										
11...	39200	6.5	420	--	25	4.9	2.4	2.4	79	18
15515800 - SEATTLE CREEK NEAR CANTWELL (LAT 63 19 32 LONG 148 14 49)										
JUNE, 1971										
05...	358	--	--	--	--	--	--	--	16	--
JULY										
13...	52	7.0	--	50	9.8	1.8	1.9	.6	36	4.8
AUG.										
20...	110	9.4	--	110	12	1.8	1.9	.6	44	3.4
15515900 - LILY CREEK NEAR CANTWELL (LAT 63 19 54 LONG 148 16 16)										
JULY, 1971										
13...	18	6.7	--	60	5.2	1.0	1.1	.4	22	1.0
15516200 - SLIME CREEK NEAR CANTWELL (LAT 63 30 34 LONG 148 43 39)										
AUG., 1971										
19...	26	3.2	80	--	19	2.8	1.0	.4	40	29
15518350 - TEKLANIKA RIVER NEAR LIGNITE (LAT 63 55 14 LONG 149 20 51)										
APR., 1971										
28...	208	9.1	--	110	47	14	6.8	.8	164	46
JUNE										
03...	1010	5.1	40	--	25	7.1	4.3	1.0	93	21
15518900 - TOLVANA RIVER ON ELLIOTT HWY (LAT 65 28 15 LONG 148 15 45)										
NOV., 1970										
11...	--	8.2	--	240	17	11	3.8	.5	70	35
15519000 - BRIDGE CREEK NEAR LIVENGOOD (LAT 65 27 52 LONG 148 15 10)										
AUG., 1971										
12...	30	8.1	50	--	7.8	2.1	.7	.1	16	.8
SEP.										
14...	--	10	--	--	8.2	3.2	1.3	.2	28	.4
15519200 - BROCKS CREEK TRIB NEAR LIVENGOOD (LAT 65 23 02 LONG 148 56 30)										
SEP., 1971										
14...	--	11	--	--	6.0	2.2	1.0	.2	16	1.0
15535000 - CARIBOU CREEK NEAR CHATANIKA (LAT 65 04 00 LONG 147 33 05)										
NOV., 1970										
10...	3.6	7.5	--	70	11	2.4	1.2	.7	39	6.0
FEB., 1971										
04...	1.6	--	--	--	--	--	--	--	44	--
APR.										
14...	1.6	--	--	--	--	--	--	--	46	--
MAY										
05...	5.0	4.5	--	250	4.8	1.6	.6	1.4	18	1.2
JUNE										
08...	16	--	--	--	--	--	--	--	24	--
AUG.										
10...	38	7.2	--	--	5.0	1.3	.7	.3	20	.6
10...	38	--	--	--	--	--	--	--	18	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15515500 - TANANA RIVER AT NENANA (LAT 64 33 55 LONG 149 05 30)										
OCT., 1970										
15...	1.0	.3	.8	159	131	19	269	8.2	5	.0
FEB., 1971										
11...	--	--	--	--	149	24	295	7.7	--	.0
MAY										
11...	1.0	.2	.5	100	83	18	160	7.4	30	--
15515800 - SEATTLE CREEK NEAR CANTWELL (LAT 63 19 32 LONG 148 14 49)										
JUNE, 1971										
05...	--	--	--	--	15	2	31	7.1	--	3.5
JULY										
13...	1.5	.0	.0	45	32	2	70	7.4	5	9.5
AUG.										
20...	.8	.1	.7	53	38	2	79	7.6	15	8.0
15515900 - LILY CREEK NEAR CANTWELL (LAT 63 19 54 LONG 148 16 16)										
JULY, 1971										
13...	.2	.1	.2	27	17	0	38	7.5	5	7.5
15516200 - SLIME CREEK NEAR CANTWELL (LAT 63 30 34 LONG 148 48 39)										
AUG., 1971										
19...	.5	.1	.6	77	60	27	128	7.6	0	6.5
15518350 - TEKLANIKA RIVER NEAR LIGNITE (LAT 63 55 14 LONG 149 29 51)										
APR., 1971										
28...	3.0	.2	1.2	209	176	42	345	8.1	5	2.0
JUNE										
03...	.5	.2	.3	110	100	24	209	7.8	25	6.5
15518900 - TOLVANA RIVER ON ELLIOTT HWY (LAT 65 28 15 LONG 148 15 45)										
NOV., 1970										
11...	.5	.3	.7	111	88	31	189	7.7	20	.0
15519000 - BRIDGE CREEK NEAR LIVENGOOD (LAT 65 27 52 LONG 148 15 10)										
AUG., 1971										
12...	.8	.4	.6	29	28	15	39	6.5	50	4.5
SEP.										
14...	.0	.4	.7	38	34	11	58	7.1	180	.5
15519200 - BROOKS CREEK TRIB NEAR LIVENGOOD (LAT 65 23 02 LONG 148 56 30)										
SEP., 1971										
14...	.2	.4	.5	30	24	11	39	6.9	50	5.0
15535000 - CARIBOU CREEK NEAR CHATANIKA (LAT 65 04 00 LONG 147 33 05)										
NOV., 1970										
10...	.2	.0	2.0	50	38	6	80	7.2	0	.0
FEB., 1971										
04...	--	--	--	--	42	6	91	7.8	--	.0
APR.										
14...	--	--	--	--	44	6	94	7.5	--	.0
MAY										
05...	1.0	.3	.7	25	19	4	43	7.3	30	.0
JUNE										
08...	--	--	--	--	22	2	49	7.5	--	5.5
AUG.										
10...	.5	.1	.6	26	18	2	38	7.3	20	--
10...	--	--	--	--	18	3	38	7.2	--	4.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
CHATANIKA RIVER AT PIPELINE CROSSING (LAT 65 03 41 LONG 147 48 39)										
JUNE, 1971										
14...	--	5.2	--	130	12	3.0	1.1	.7	38	13
AUG.										
10...	--	7.2	70	--	10	3.0	.8	5.4	30	12
28...	--	--	--	--	17	4.1	1.3	.7	--	17
15564500 - MELOZITNA RIVER NEAR RUBY (LAT 64 47 34 LONG 155 33 39)										
MAR., 1971										
20...	20	--	--	--	--	--	--	--	70	--
SEP.										
24...	1700	7.5	--	530	9.2	2.9	2.0	.3	38	5.6
HEADWATERS OF KUYUKTUVUK CREEK (LAT 68 03 59 LONG 149 59 30)										
AUG., 1971										
23...	--	--	--	--	16	4.6	1.4	.3	--	6.0
KUYUKTUVUK CREEK ABOVE TRIB #1 (LAT 68 03 00 LONG 149 51 00)										
AUG., 1971										
23...	--	--	--	--	21	10	2.2	.3	--	12
KUYUKTUVUK CREEK BETWEEN TRIB #1 AND #2 (LAT 68 00 00 LONG 149 55 20)										
AUG., 1971										
23...	--	--	--	--	26	20	8.8	.6	--	24
KUYUKTUVUK CREEK BELOW TREMBLEY CREEK (LAT 67 56 00 LONG 149 51 40)										
AUG., 1971										
23...	--	--	--	--	42	19	6.3	.4	--	60
DIETRICH RIVER NEAR KUYUKTUVUK CREEK (LAT 67 55 00 LONG 149 50 30)										
AUG., 1971										
23...	--	--	--	--	52	22	4.2	.4	--	65
15564868 - UPPER LAKE AT CONE BETTLES-DIETRICH (LAT 67 37 05 LONG 149 44 25)										
NOV., 1970										
15...	--	3.4	--	30	91	11	.7	--	336	3.9
15564869 - LOWER LAKE AT CONE BETTLES-DIETRICH (LAT 67 37 00 LONG 149 44 25)										
NOV., 1970										
14...	--	1.5	--	40	65	13	.6	.8	244	9.4
15564875 - MINNIE CREEK NEAR WISEMAN (LAT 67 35 22 LONG 150 04 14)										
JUNE, 1971										
12...	--	.8	0	--	10	1.7	.2	.3	28	6.6
AUG.										
11...	--	1.6	20	--	23	4.2	.4	.2	67	16
11...	--	2.0	--	--	22	4.7	.3	.1	71	16
15564877 - WISEMAN CREEK AT WISEMAN (LAT 67 24 40 LONG 150 06 00)										
JUNE, 1971										
12...	66	1.6	120	--	17	3.5	.4	.8	51	15
AUG.										
11...	--	2.8	260	--	46	9.9	.8	.6	116	54
SEP.										
08...	16	3.0	130	--	48	12	.9	.6	126	62

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
CHATANIKA RIVER AT PIPELINE CROSSING (LAT 65 03 41 LONG 147 48 39)										
JUNE, 1971										
14...	.5	.1	.6	55	44	13	90	7.7	5	--
AUG.										
10...	5.5	.1	.8	60	38	13	95	7.1	20	--
28...	--	--	.7	--	--	--	--	--	--	--
15564600 - MELOZITNA RIVER NEAR RUBY (LAT 64 47 34 LONG 155 33 39)										
MAR., 1971										
20...	--	--	--	--	64	7	139	7.3	--	.5
SEP.										
24...	.8	.2	.7	49	35	4	75	7.0	35	5.0
HEADWATERS OF KUYUKTUVUK CREEK (LAT 68 03 59 LONG 149 59 30)										
AUG., 1971										
23...	--	--	.2	--	--	--	--	--	--	--
KUYUKTUVUK CREEK ABOVE TRIB #1 (LAT 68 03 00 LONG 149 51 00)										
AUG., 1971										
23...	--	--	.2	--	--	--	--	--	--	--
KUYUKTUVUK CREEK BETWEEN TRIB #1 AND #2 (LAT 68 00 00 LONG 149 55 20)										
AUG., 1971										
23...	--	--	.2	--	--	--	--	--	--	--
KUYUKTUVUK CREEK BELOW TREMBLEY CREEK (LAT 67 56 00 LONG 149 51 40)										
AUG., 1971										
23...	--	--	.2	--	--	--	--	--	--	--
DIETRICH RIVER NEAR KUYUKTUVUK CREEK (LAT 67 55 00 LONG 149 50 30)										
AUG., 1971										
23...	--	--	.5	--	--	--	--	--	--	--
15564868 - UPPER LAKE AT CONF BETTLES-DIETRICH (LAT 67 37 05 LONG 149 44 25)										
NOV., 1970										
15...	--	.1	.3	286	272	0	504	7.9	10	--
15564869 - LOWER LAKE AT CONF BETTLES-DIETRICH (LAT 67 37 00 LONG 149 44 25)										
NOV., 1970										
14...	.4	.2	.1	211	215	15	372	7.8	5	--
15564876 - MINNIE CREEK NEAR WISEMAN (LAT 67 25 22 LONG 150 04 14)										
JUNE, 1971										
12...	.8	.1	.0	34	29	9	60	7.5	10	8.5
AUG.										
11...	1.8	.1	.1	80	74	19	137	8.1	0	--
11...	1.5	.1	.2	82	75	17	144	7.8	0	--
15564877 - WISEMAN CREEK AT WISEMAN (LAT 67 24 40 LONG 150 06 00)										
JUNE, 1971										
12...	1.5	.1	.0	65	58	16	121	7.7	10	10.0
AUG.										
11...	1.0	.1	.3	172	154	59	291	8.1	5	--
SEP.										
08...	.8	.1	.5	190	170	67	319	8.1	5	5.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15564887 - PROSPECT CREEK AT JIM RIVER (LAT 66 46 18 LONG 150 40 25)										
NOV., 1970										
12...	--	7.1	--	40	9.2	4.5	1.7	.4	26	23
JUNE, 1971										
09...	--	3.4	310	--	2.9	1.3	.9	.8	9	5.0
AUG.										
11...	--	6.6	--	--	6.4	1.0	1.0	1.6	13	10
SLATE CREEK ABOVE COLDFOOT (LAT 67 14 50 LONG 150 08 02)										
AUG., 1971										
28...	--	--	--	--	13	3.8	.5	.2	--	18
KANUTI RIVER NEAR BETTLES (LAT 66 26 29 LONG 150 34 00)										
AUG., 1971										
28...	--	--	--	--	2.0	1.0	1.1	.2	--	.0
15564900 - KOYUKUK RIVER AT HUGHES (LAT 66 02 51 LONG 154 15 30)										
AUG., 1971										
12...	13700	4.8	--	130	24	5.8	1.6	.5	86	18
SEP.										
21...	7950	5.5	--	180	31	7.9	1.3	.5	111	22
15621000 - SNAKE RIVER NEAR NOME (LAT 64 33 51 LONG 165 30 26)										
MAR., 1971										
27...	--	5.3	--	150	34	6.6	6.5	.4	102	17
AUG.										
13...	63	--	--	--	--	--	--	--	94	--
SEP.										
19...	47	5.1	--	80	30	5.6	3.6	.3	96	16
15625000 - ARCTIC CREEK NEAR NOME (LAT 64 38 15 LONG 165 42 45)										
SEP., 1971										
19...	.20	4.8	--	60	33	4.2	1.9	.3	115	8.2
15633000 - WASHINGTON CREEK NEAR NOME (LAT 64 42 50 LONG 165 43 15)										
JULY, 1971										
10...	.03	4.7	--	30	31	1.7	2.7	.4	96	5.8
15668100 - STAR CREEK NEAR NOME (LAT 64 55 25 LONG 164 57 30)										
JULY, 1971										
10...	--	2.8	--	40	24	2.9	1.1	.4	55	24
15668200 - CRATER CREEK NEAR NOME (LAT 64 55 40 LONG 164 52 15)										
AUG., 1971										
14...	--	4.0	--	30	8.4	1.9	1.6	.7	21	14
SEP.										
19...	--	5.1	--	70	9.5	1.5	1.5	.7	20	13
15712000 - KUZITRIN RIVER NEAR NOME (LAT 65 13 17 LONG 164 37 15)										
JULY, 1971										
11...	--	7.3	--	110	16	3.3	4.3	1.0	64	7.6
AUG.										
14...	325	--	--	--	--	--	--	--	82	--
SEP.										
19...	304	11	--	100	18	5.2	6.2	1.1	80	9.2

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15564887 - PROSPECT CREEK AT JIM RIVER (LAT 66 46 18 LONG 150 40 25)										
NOV., 1970										
12...	.0	.0	.9	59	42	21	98	7.3	0	.0
JUNE, 1971										
09...	1.2	.1	.4	20	13	6	31	7.0	15	--
AUG.										
11...	2.0	.1	.1	35	20	9	49	6.9	0	--
SLATE CREEK ABOVE COLDFOOT (LAT 67 14 50 LONG 150 08 02)										
AUG., 1971										
28...	--	--	.4	--	--	--	--	--	--	--
KANUTI RIVER NEAR BETTLES (LAT 66 26 29 LONG 150 34 00)										
AUG., 1971										
28...	--	--	.2	--	--	--	--	--	--	--
15564900 - KOYUKUK RIVER AT HUGHES (LAT 66 02 51 LONG 154 15 30)										
AUG., 1971										
12...	.5	.2	.3	98	89	19	177	7.8	25	14.0
SEP.										
21...	.5	.1	.2	125	110	19	218	7.6	25	6.5
15621000 - SNAKE RIVER NEAR NOME (LAT 64 33 51 LONG 165 30 26)										
MAR., 1971										
27...	16	.0	.0	136	113	29	249	7.6	5	.0
AUG.										
13...	--	--	--	--	97	20	201	7.9	--	.0
SEP.										
19...	8.9	.0	.0	117	98	19	209	7.9	5	5.0
15625000 - ARCTIC CREEK NEAR NOME (LAT 64 38 15 LONG 165 42 45)										
SEP., 1971										
19...	3.0	.0	.4	113	100	6	201	8.0	5	4.0
15633000 - WASHINGTON CREEK NEAR NOME (LAT 64 42 50 LONG 165 49 15)										
JULY, 1971										
10...	3.5	.0	.1	97	84	5	174	7.7	20	10.5
15668100 - STAR CREEK NEAR NOME (LAT 64 55 25 LONG 164 57 30)										
JULY, 1971										
10...	1.0	.0	.1	83	72	27	149	7.8	0	6.5
15668200 - CRATER CREEK NEAR NOME (LAT 64 55 40 LONG 164 52 15)										
AUG., 1971										
14...	1.5	.1	.0	42	29	12	75	7.4	5	--
SEP.										
19...	2.0	.0	.5	44	30	14	73	7.1	5	5.0
15712000 - KUZITRIN RIVER NEAR NOME (LAT 65 13 17 LONG 164 37 15)										
JULY, 1971										
11...	3.0	.0	.0	76	56	4	129	7.6	10	--
AUG.										
14...	--	--	--	--	70	3	159	7.6	--	.0
SEP.										
19...	4.0	.1	.3	94	67	1	156	7.8	5	6.5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
15744000 - KOBUK RIVER AT AMBLER (LAT 67 05 13 LONG 157 50 51)										
MAR., 1971										
31...	220	5.9	--	70	33	5.2	1.5	.5	111	12
15896020 - E CHAN KUPARUK R NR PRUDHOE BAY (LAT 70 20 30 LONG 148 58 00)										
NOV., 1970										
20...	--	3.1	--	230	66	5.5	3.9	.8	221	3.3
15896700 - PUTULIGAYUK RIVER NEAR DEADHORSE (LAT 70 16 08 LONG 148 37 11)										
JUNE, 1971										
03...	58	--	--	--	--	--	--	--	68	--
23...	53	1.2	30	--	38	2.6	2.5	.7	122	.2
AUG.										
13...	--	.7	0	--	57	3.8	3.1	.8	180	.2
SEP.										
15...	1.4	1.2	--	--	57	4.3	3.6	.6	190	.0
ATIGUN RIVER NEAR DIETRICH RIVER (LAT 68 07 50 LONG 149 47 00)										
AUG., 1971										
24...	--	--	--	--	13	7.8	.4	.3	--	--
TRIB. TO ITKILLIK RIVER (LAT 68 07 50 LONG 149 47 20)										
AUG., 1971										
24...	--	--	--	--	12	8.5	.2	.4	--	10
LAKE SOUTH OF ANAKTUVUK (LAT 68 08 10 LONG 151 45 15)										
JUNE, 1971										
17...	--	2.1	0	--	25	3.9	.1	.2	91	.2
ATIGUN RIVER NEAR PIPELINE CROSSING (LAT 68 15 40 LONG 149 27 30)										
AUG., 1971										
24...	--	--	--	--	18	7.7	.6	.3	--	14
ITIKMATAK RIVER (LAT 68 15 50 LONG 149 41 10)										
AUG., 1971										
24...	--	--	--	--	17	9.8	.5	.3	--	17
ATIGUN RIVER NEAR GALBRAITH LAKE (LAT 68 21 45 LONG 149 20 00)										
AUG., 1971										
24...	--	--	--	--	18	6.4	1.0	.3	--	10
ATIGUN RIVER BELOW GALBRAITH LAKE (LAT 68 27 10 LONG 149 21 20)										
AUG., 1971										
25...	--	--	--	--	22	5.6	.9	.3	--	9.8
TRIB. TO ATIGUN RIVER IN ATIGUN CANYON (LAT 68 28 00 LONG 149 16 20)										
AUG., 1971										
26...	--	--	--	--	36	3.9	4.1	.7	--	19

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
15744000 - KOBUK RIVER AT AMBLER (LAT 67 05 13 LONG 157 50 51)										
MAR., 1971										
21...	.0	.1	.2	114	103	12	198	7.6	5	.0
15896020 - E CHAN KUPARUK R NR PRUDHOE BAY (LAT 70 20 30 LONG 148 58 00)										
NOV., 1970										
20...	2.5	.2	2.0	197	186	5	336	8.2	10	--
15896700 - PUTULIGAYUK RIVER NEAR DEADHORSE (LAT 70 16 08 LONG 148 37 11)										
JUNE, 1971										
03...	--	--	--	--	60	4	144	7.7	--	.5
23...	7.2	.1	.1	113	106	11	209	7.7	0	13.5
AUG.										
13...	9.8	.2	.0	165	158	10	292	8.3	0	--
SEP.										
15...	10	.1	.2	170	160	4	315	8.2	5	2.0
ATIGUN RIVER NEAR DIETRICH RIVER (LAT 68 07 50 LONG 149 47 00)										
AUG., 1971										
24...	--	--	.3	--	--	--	--	--	--	--
TRIB. TO ITKILLIK RIVER (LAT 68 07 50 LONG 149 47 20)										
AUG., 1971										
24...	--	--	.1	--	--	--	--	--	--	--
LAKE SOUTH OF ANAKTUVUK (LAT 68 08 10 LONG 151 45 15)										
JUNE, 1971										
17...	.8	.0	.4	78	77	2	145	7.4	10	9.0
ATIGUN RIVER NEAR PIPELINE CROSSING (LAT 68 15 40 LONG 149 27 30)										
AUG., 1971										
24...	--	--	.1	--	--	--	--	--	--	--
ITIKMATAK RIVER (LAT 68 15 50 LONG 149 41 10)										
AUG., 1971										
24...	--	--	.3	--	--	--	--	--	--	--
ATIGUN RIVER NEAR GALBRAITH LAKE (LAT 68 21 45 LONG 149 20 00)										
AUG., 1971										
24...	--	--	.0	--	--	--	--	--	--	--
ATIGUN RIVER BELOW GALBRAITH LAKE (LAT 68 27 10 LONG 149 21 20)										
AUG., 1971										
25...	--	--	.1	--	--	--	--	--	--	--
TRIB. TO ATIGUN RIVER IN ATIGUN CANYON (LAT 68 28 00 LONG 149 16 20)										
AUG., 1971										
26...	--	--	.1	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)
ALASKA WEST OF LONGITUDE 141°--Continued										
ATIGUN RIVER IN ATIGUN CANYON (LAT 68 28 20 LONG 149 17 20)										
AUG., 1971										
25...	--	--	--	--	22	5.5	1.2	.3	--	11
25...	--	--	--	--	23	5.5	1.2	.3	--	10
26...	--	--	--	--	23	5.5	1.2	.3	--	11
26...	--	--	--	--	22	5.5	1.2	.3	--	11
26...	--	--	--	--	22	5.5	1.2	.3	--	11
TRIB. TO SAGAVANIRKTOK R NR GALBRAITH LAKE (LAT 68 32 38 LONG 149 00 00)										
MAR., 1971										
16...	1.6	2.7	--	60	35	5.6	.8	.2	121	10
15930000 - WEST CHAN SAGAVANIRKTOK RIVER NEAR PRUDHOE B (LAT 70 16 15 LONG 148 16 30)										
NOV., 1970										
20...	--	3.1	--	30	53	9.2	1.3	2.5	181	19

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)
ALASKA WEST OF LONGITUDE 141°--Continued										
ATIGUN RIVER IN ATIGUN CANYON (LAT 68 28 20 LONG 149 17 20)										
AUG., 1971										
25...	--	--	.1	--	--	--	--	--	--	--
25...	--	--	.0	--	--	--	--	--	--	--
26...	--	--	.1	--	--	--	--	--	--	--
26...	--	--	.0	--	--	--	--	--	--	--
26...	--	--	.1	--	--	--	--	--	--	--
TRIB. TO SAGAVANIRKTOK R NR GALBRAITH LAKE (LAT 68 32 38 LONG 149 00 00)										
MAR., 1971										
16...	1.0	.1	.0	115	110	11	209	7.9	10	.0
15930000 - WEST CHAN SAGAVANIRKTOK RIVER NEAR PRUDHOE B (LAT 70 16 15 LONG 148 16 30)										
NOV., 1970										
20...	3.0	.4	1.1	182	169	21	314	8.2	0	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
SOUTHEASTERN ALASKA							
15008000 - SALMON RIVER NEAR HYDER (LAT 56 01 34 LONG 130 03 55)							
OCT., 1970							
23...	1210	--	100	--	291	3	2.4
MAR., 1971							
24...	1055	.0	162	--	29	2	.16
MAY							
17...	1730	3.0	121	--	275	3	2.2
AUG.							
01...	1700	3.0	42	--	3390	107	979
29...	1145	--	74	--	44200	1390	166000
30...	1105	.0	79	--	31100	1460	123000
15015600 - KLAHINI RIVER NEAR BELL ISLAND (LAT 56 03 15 LONG 131 02 55)							
OCT., 1970							
26...	1400	--	27	--	234	2	1.3
JAN., 1971							
13...	1320	.5	36	--	100	1	.27
MAR.							
22...	1030	.0	42	--	49	1	.13
MAY							
20...	1300	4.0	24	--	440	1	1.2
AUG.							
04...	1500	9.0	14	--	574	2	3.1
SEP.							
03...	1830	9.5	12	--	3040	181	1490
15022000 - HARDING RIVER NEAR WRANGELL (LAT 56 12 50 LONG 131 38 14) (Hydrologic bench-mark station)							
OCT., 1970							
29...	1130	7.5	24	--	2010	36	195
JAN., 1971							
09...	--	.0	26	--	232	5	3.1
MAR.							
20...	1300	1.0	31	--	73	1	.20
MAY							
15...	0930	3.0	26	--	632	3	5.1
AUG.							
08...	1000	8.5	14	--	1160	10	31
SEP.							
06...	1000	7.5	20	--	1640	2	8.9
15031000 - LONG RIVER AB LONG LAKE NR JUNEAU (LAT 58 10 56 LONG 133 53 06)							
OCT., 1970							
20...	1425	2.0	19	--	33	8	.72
APR., 1971							
28...	1000	2.0	43	--	20	3	.16
JULY							
14...	0950	2.5	10	--	237	32	20
15034000 - LONG RIVER NEAR JUNEAU (LAT 58 10 00 LONG 133 41 50)							
APR., 1971							
28...	1200	2.0	28	--	95	5	1.3
15036000 - SPEEL RIVER NEAR JUNEAU (LAT 58 12 10 LONG 133 36 40)							
OCT., 1970							
08...	1240	4.0	27	--	2910	1890	14900
APR., 1971							
28...	1410	2.0	36	--	538	7	10
JULY							
14...	1415	2.5	22	--	5730	387	5990

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
SOUTHEASTERN ALASKA--Continued											
15008000 - SALMON RIVER NEAR HYDER (LAT 56 01 34 LONG 130 03 55)											
OCT., 1970											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
01...	22	32	--	60	--	93	98	100	--	--	--
29...	9	16	24	33	46	60	79	96	100	--	--
30...	18	27	37	50	63	78	89	97	100	--	--
15015600 - KLAHINI RIVER NEAR BELL ISLAND (LAT 56 03 15 LONG 131 02 55)											
OCT., 1970											
26...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
03...	--	--	--	--	--	27	40	64	91	100	--
15022000 - HARDING RIVER NEAR WRANGELL (LAT 56 12 50 LONG 131 38 14) (Hydrologic bench-mark station)											
OCT., 1970											
29...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
09...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
06...	--	--	--	--	--	--	--	--	--	--	--
15031000 - LONG RIVER AB LONG LAKE NR JUNEAU (LAT 58 10 56 LONG 133 53 06)											
OCT., 1970											
20...	--	--	--	--	--	--	--	--	--	--	--
APR., 1971											
28...	--	--	--	--	--	--	--	--	--	--	--
JULY											
14...	--	--	--	--	--	--	--	--	--	--	--
15034000 - LONG RIVER NEAR JUNEAU (LAT 58 10 00 LONG 133 41 50)											
APR., 1971											
28...	--	--	--	--	--	--	--	--	--	--	--
15036000 - SPEEL RIVER NEAR JUNEAU (LAT 58 12 10 LONG 133 36 40)											
OCT., 1970											
08...	--	--	--	--	--	4	19	54	82	94	98
APR., 1971											
28...	--	--	--	--	--	--	--	--	--	--	--
JULY											
14...	--	--	--	--	--	38	47	61	100	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
SOUTHEASTERN ALASKA--Continued							
15048000 - SHEEP CREEK NEAR JUNEAU (LAT 58 16 30 LONG 134 18 50)							
OCT., 1970							
23...	1250	5.0	92	--	41	3	.34
NOV.							
24...	1325	2.5	93	--	24	2	.13
DEC.							
23...	1145	1.0	101	--	9.8	2	.05
JAN., 1971							
25...	1310	.0	101	--	11	1	.03
APR.							
20...	1000	3.0	103	--	11	1	.03
MAY							
20...	1115	3.0	86	--	54	1	.15
JUNE							
21...	1000	8.0	65	--	118	2	.64
JULY							
20...	1200	10.0	66	--	101	2	.55
AUG.							
27...	1045	--	79	--	85	2	.46
SEP.							
20...	1030	6.0	74	--	53	1	.14
15050000 - GOLD CREEK AT JUNEAU (LAT 58 18 25 LONG 134 24 05)							
OCT., 1970							
01...	1110	5.5	100	--	600	11	18
27...	0930	4.0	142	--	55	1	.15
JAN., 1971							
07...	1110	1.5	113	--	117	9	2.8
FEB.							
04...	1115	1.0	196	--	4.0	1	.01
MAR.							
10...	1535	1.0	184	--	4.5	1	.01
MAY							
06...	1520	--	148	--	44	3	.36
SEP.							
14...	1330	7.0	106	--	137	1	.37
15052000 - LEMON CREEK NEAR JUNEAU (LAT 58 23 30 LONG 134 25 15)							
OCT., 1970							
13...	1200	3.0	22	--	192	21	11
MAR., 1971							
23...	1250	.5	83	--	1.5	2	.01
MAY							
17...	1255	2.0	67	--	23	3	.19
SEP.							
24...	1300	3.5	21	--	172	12	5.6
15052500 - MENDENHALL RIVER NEAR AUKE BAY (LAT 58 25 05 LONG 134 32 40)							
OCT., 1970							
29...	1415	4.5	45	--	486	77	101
15054200 - HERBERT RIVER NEAR AUKE BAY (LAT 58 31 26 LONG 134 47 40)							
OCT., 1970							
28...	1230	2.5	49	--	183	6	3.0
DEC.							
01...	1300	.5	76	--	42	6	.68
JAN., 1971							
18...	1220	1.0	77	--	40	3	.32
FEB.							
05...	1140	.0	95	--	37	17	1.7
MAR.							
12...	1130	--	84	--	32	2	.17
MAY							
04...	1050	--	46	--	194	9	4.7
SEP.							
30...	1530	3.0	42	--	192	16	8.3

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
SOUTHEASTERN ALASKA--Continued											
15048000 - SHEEP CREEK NEAR JUNEAU (LAT 58 16 30 LONG 134 18 50)											
OCT., 1970											
23...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
24...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
25...	--	--	--	--	--	--	--	--	--	--	--
APR.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
20...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
21...	--	--	--	--	--	--	--	--	--	--	--
JULY											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
20...	--	--	--	--	--	--	--	--	--	--	--
15050000 - GOLD CREEK AT JUNEAU (LAT 58 18 25 LONG 134 24 05)											
OCT., 1970											
01...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
07...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
04...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
10...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
14...	--	--	--	--	--	--	--	--	--	--	--
15052000 - LEMON CREEK NEAR JUNEAU (LAT 58 23 30 LONG 134 25 15)											
OCT., 1970											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
15052500 - MENDENHALL RIVER NEAR AUKE BAY (LAT 58 25 05 LONG 134 32 40)											
OCT., 1970											
29...	--	--	--	--	--	--	--	--	--	--	--
15054200 - HERBERT RIVER NEAR AUKE BAY (LAT 58 31 26 LONG 134 47 40)											
OCT., 1970											
28...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
01...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
18...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
30...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC CONDU-CTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
SOUTHEASTERN ALASKA--Continued							
15059500 - WHIPPLE CREEK NEAR WARD COVE (LAT 55 26 30 LONG 131 47 38)							
OCT., 1970							
24...	1000	5.0	29	--	50	3	.40
JAN., 1971							
11...	1515	.0	46	--	11	1	.03
MAR.							
26...	1400	3.0	37	--	7.5	6	.12
MAY							
16...	1140	4.0	37	--	24	4	.26
JULY							
30...	0940	15.5	57	--	2.2	1	.01
SEP.							
01...	0935	10.5	43	--	12	5	.16
15081800 - NORTH BRANCH TROCADERO CREEK NEAR HYDABURG (LAT 55 21 41 LONG 132 52 20)							
OCT., 1970							
19...	1430	5.5	25	--	197	1	.53
MAR., 1971							
30...	1300	1.0	33	--	57	1	.15
MAY							
23...	1600	3.0	20	--	518	3	4.2
JULY							
27...	0935	14.0	66	--	9.1	0	.00
AUG.							
27...	1530	11.5	32	--	60	1	.16
15081900 - HYDABURG RIVER AT HYDABURG (LAT 55 12 45 LONG 132 49 12)							
JAN., 1971							
19...	0900	--	35	--	54	1	.15
15109000 - FISH CREEK NEAR AUKE BAY (LAT 58 19 50 LONG 134 35 20)							
OCT., 1970							
27...	1515	3.5	27	--	113	2	.61
JAN., 1971							
08...	1545	.0	35	--	60	2	.32
FEB.							
01...	1520	.0	63	--	8.9	1	.02
MAR.							
08...	1000	1.0	58	--	10	1	.03
MAY							
03...	1220	1.5	26	--	118	5	1.6
JULY							
14...	1400	8.0	31	--	51	1	.14
SEP.							
14...	1115	7.0	42	--	56	1	.15

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
SOUTHEASTERN ALASKA--Continued											
15059500 - WHIPPLE CREEK NEAR WARD COVE (LAT 55 26 30 LONG 131 47 38)											
OCT., 1970											
24...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	--	--	--	--	--	--	--	--	--	--	--
JULY											
30...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
01...	--	--	--	--	--	--	--	--	--	--	--
15081800 - NORTH BRANCH TROCADERO CREEK NEAR HYDABURG (LAT 55 21 41 LONG 132 52 20)											
OCT., 1970											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
30...	--	--	--	--	--	--	--	--	--	--	--
MAY											
23...	--	--	--	--	--	--	--	--	--	--	--
JULY											
27...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--
15081900 - HYDABURG RIVER AT HYDABURG (LAT 55 12 45 LONG 132 49 12)											
JAN., 1971											
19...	--	--	--	--	--	--	--	--	--	--	--
15109000 - FISH CREEK NEAR AUKE BAY (LAT 58 19 50 LONG 134 35 20)											
OCT., 1970											
27...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
08...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
08...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	--	--	--	--	--	--	--	--	--	--	--
JULY											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
14...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC CONO-UCTANCE (MICRO-MHOS)	TUR-BIO-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°							
15193000 - TROUT CREEK NEAR CORDOVA (LAT 60 24 04 LONG 144 03 02)							
MAR., 1971							
21...	1120	.5	116	--	3.2	1	.01
15193700 - STILLWATER CREEK NEAR KUSHTAKA LAKE (LAT 60 23 39 LONG 144 03 58)							
MAR., 1971							
21...	1240	.5	116	--	94	11	2.8
15193800 - UPPER SHEPHERD CREEK NEAR CORDOVA (LAT 60 24 49 LONG 144 12 14)							
MAR., 1971							
20...	1600	--	90	--	27	5	.36
15194000 - CARBON CREEK NEAR CORDOVA (LAT 60 21 25 LONG 144 12 54)							
MAR., 1971							
20...	1500	2.0	120	--	2.8	1	.01
15194500 - SHEPHERD CREEK NEAR CORDOVA (LAT 60 21 44 LONG 144 13 00)							
MAR., 1971							
20...	--	.0	86	--	27	6	.44
15195000 - DICK CREEK NEAR CORDOVA (LAT 60 20 36 LONG 144 18 10)							
MAR., 1971							
20...	1200	2.0	84	--	8.6	1	.02
JULY							
22...	1030	4.0	42	--	132	12	4.3
SEP.							
10...	1630	6.0	56	--	81	1	.22
15202000 - TAZLINA RIVER NEAR GLENNALLEN (LAT 62 03 20 LONG 145 25 34)							
NOV., 1970							
30...	1600	.0	168	--	791	25	53
MAR., 1971							
16...	1015	.0	203	--	158	7	3.0
JUNE							
02...	1730	7.0	154	--	1140	39	120
JULY							
10...	1130	11.5	--	55	10000	--	--
AUG.							
22...	1600	9.0	--	130	12000	--	--
SEP.							
02...	1145	8.5	161	--	25000	3080	208000
04...	1345	8.5	156	--	39400	2760	294000
15207900 - LITTLE TONSINA RIVER NEAR CONFLUENCE TONSINA (LAT 61 35 50 LONG 145 13 25)							
DEC., 1970							
02...	1320	.0	150	4	--	--	--
AUG., 1971							
25...	--	9.0	104	--	92	3	.75
15208100 - SQUIRREL CREEK AT TONSINA (LAT 61 40 05 LONG 145 10 26)							
OCT., 1970							
02...	1415	3.0	187	--	29	2	.16
DEC.							
03...	0930	.0	200	--	12	6	.20
MAR., 1971							
15...	1100	.5	199	--	12	10	.35
JUNE							
03...	2050	5.0	111	--	66	17	3.0
JULY							
09...	2045	10.0	126	--	39	4	.42
AUG.							
25...	1435	8.0	172	--	20	57	3.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15193000 - TROUT CREEK NEAR CORDOVA (LAT 60 24 04 LONG 144 03 02)											
MAR., 1971											
21...	--	--	--	--	--	--	--	--	--	--	--
15193700 - STILLWATER CREEK NEAR KUSHTAKA LAKE (LAT 60 23 39 LONG 144 03 58)											
MAR., 1971											
21...	--	--	--	--	--	--	--	--	--	--	--
15193800 - UPPER SHEPHERD CREEK NEAR CORDOVA (LAT 60 24 49 LONG 144 12 14)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
15194000 - CARBON CREEK NEAR CORDOVA (LAT 60 21 25 LONG 144 12 54)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
15194500 - SHEPHERD CREEK NEAR CORDOVA (LAT 60 21 44 LONG 144 13 00)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
15195000 - DICK CREEK NEAR CORDOVA (LAT 60 20 36 LONG 144 18 10)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
JULY											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	--	--	--	--	--	--	--	--	--	--	--
15202000 - TAZLINA RIVER NEAR GLENNALLEN (LAT 62 03 20 LONG 145 25 34)											
NOV., 1970											
30...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
16...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
02...	--	--	--	--	--	--	--	--	--	--	--
JULY											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
02...	21	28	36	47	58	70	81	93	100	--	--
04...	18	27	40	52	64	73	80	90	99	100	--
15207900 - LITTLE TONSINA RIVER NEAR CONFLUENCE TONSINA (LAT 61 35 50 LONG 145 13 25)											
DEC., 1970											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG., 1971											
25...	--	--	--	--	--	--	--	--	--	--	--
15208100 - SQUIRREL CREEK AT TONSINA (LAT 61 40 05 LONG 145 10 26)											
OCT., 1970											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
03...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
15...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
03...	--	--	--	--	--	--	--	--	--	--	--
JULY											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
25...	--	--	--	--	--	23	43	83	100	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ALASKA WEST OF LONGITUDE 141°--Continued

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
15212000 - COPPER RIVER NEAR CHITINA (LAT 61 27 56 LONG 144 27 21)							
OCT., 1970							
01...	1400	4.5	194	--	26300	152	10800
MAR., 1971							
14...	1300	.0	331	--	3930	17	180
JULY							
08...	1630	13.0	--	510	107000	--	--
AUG.							
23...	1030	8.0	--	300	95200	--	--
15216000 - POWER CREEK NEAR CORDOVA (LAT 60 35 14 LONG 145 37 05)							
JULY, 1971							
21...	1100	5.0	33	--	568	20	31
SEP.							
11...	0925	4.5	45	--	198	5	2.7
15238600 - SPRUCE CREEK NEAR SEWARD (LAT 60 04 10 LONG 149 27 08)							
NOV., 1970							
10...	1430	3.0	61	--	74	1	.20
DEC.							
23...	0930	1.0	78	--	7.0	1	.02
MAY , 1971							
12...	1700	1.0	75	--	14	1	.04
JULY							
02...	1130	3.5	52	--	134	1	.36
AUG.							
10...	0945	4.0	36	--	200	3	1.6
15239000 - BRADLEY RIVER NEAR HOMER (LAT 59 45 24 LONG 150 51 02)							
SEP., 1971							
08...	1300	7.0	50	--	502	56	76
28...	1118	6.0	50	--	388	33	35
15239900 - ANCHOR RIVER NEAR ANCHOR POINT (LAT 59 44 50 LONG 151 45 11)							
NOV., 1970							
11...	1530	1.0	70	--	284	21	16
DEC.							
21...	1030	.0	101	--	87	11	2.6
JUNE, 1971							
24...	1245	10.0	71	--	264	30	21
AUG.							
27...	1400	9.0	86	--	118	2	.64
15258000 - KENAI RIVER AT COOPER LANDING (LAT 60 29 34 LONG 149 48 28)							
OCT., 1970							
01...	1620	--	77	--	3660	4	40
DEC.							
20...	1220	2.0	76	--	929	2	5.0
MAR., 1971							
19...	1830	1.0	88	--	511	4	5.5
JULY							
13...	1500	6.0	69	--	10200	4	110
AUG.							
26...	1140	8.5	--	25	7290	--	--
15266300 - KENAI RIVER AT SOLDOTNA (LAT 60 28 39 LONG 151 04 46)							
JAN., 1971							
28...	1600	.0	83	--	1300	3	11
MAR.							
24...	1600	.0	80	--	1130	1	3.1
JULY							
14...	1100	12.0	65	--	16700	151	6810
AUG.							
26...	1450	10.0	--	2	15300	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15212000 - COPPER RIVER NEAR CHITINA (LAT 61 27 56 LONG 144 27 21)											
OCT., 1970											
01...	27	37	--	48	--	60	71	89	100	--	--
MAR., 1971											
14...	--	--	--	--	--	--	--	--	--	--	--
JULY											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
23...	--	--	--	--	--	--	--	--	--	--	--
15216000 - POWER CREEK NEAR CORDOVA (LAT 60 35 14 LONG 145 37 05)											
JULY, 1971											
21...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	--	--	--	--	--	--	--	--	--	--	--
15238600 - SPRUCE CREEK NEAR SEWARD (LAT 60 04 10 LONG 149 27 08)											
NOV., 1970											
10...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1971											
12...	--	--	--	--	--	--	--	--	--	--	--
JULY											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
10...	--	--	--	--	--	--	--	--	--	--	--
15239000 - BRADLEY RIVER NEAR HOMER (LAT 59 45 24 LONG 150 51 02)											
SEP., 1971											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
15239900 - ANCHOR RIVER NEAR ANCHOR POINT (LAT 59 44 50 LONG 151 45 11)											
NOV., 1970											
11...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
21...	--	--	--	--	--	--	--	--	--	--	--
JUNE, 1971											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--
15258000 - KENAI RIVER AT COOPER LANDING (LAT 60 29 34 LONG 149 48 28)											
OCT., 1970											
01...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR., 1971											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
26...	--	--	--	--	--	--	--	--	--	--	--
15266300 - KENAI RIVER AT SOLDOTNA (LAT 60 28 39 LONG 151 04 46)											
JAN., 1971											
28...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
24...	--	--	--	--	--	--	--	--	--	--	--
JULY											
14...	--	--	--	--	--	71	84	96	100	--	--
AUG.											
26...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

ALASKA WEST OF LONGITUDE 141°--Continued

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
15267900 - RESURRECTION CREEK NEAR HOPE (LAT 60 53 40 LONG 149 38 13)							
DEC., 1970							
23...	1430	.0	121	--	127	10	3.4
APR., 1971							
09...	1545	.0	158	--	70	3	.57
MAY							
13...	1800	.5	94	--	204	13	7.2
15272550 - GLACIER CREEK AT GIRDWOOD (LAT 60 56 29 LONG 149 09 44)							
OCT., 1970							
15...	1430	1.5	131	--	118	2	.64
NOV.							
01...	1000	2.0	75	--	1080	538	1570
DEC.							
01...	1130	.0	135	--	54	4	.58
FEB., 1971							
08...	1230	--	135	--	40	4	.43
APR.							
20...	1640	--	129	--	41	6	.66
MAY							
26...	1345	3.0	88	--	237	7	4.5
JUNE							
30...	1130	3.0	--	15	822	--	--
AUG.							
09...	1315	.0	--	140	1870	--	--
SEP.							
15...	1400	5.0	--	1	211	--	--
15274600 - CAMPBELL CREEK NEAR SPENARD (LAT 61 08 17 LONG 149 55 20)							
OCT., 1970							
12...	1515	3.5	109	--	59	50	8.0
MAY , 1971							
18...	1530	1.5	115	--	28	94	7.1
JULY							
01...	1500	7.0	66	--	132	73	26
14...	1515	11.5	69	--	237	186	119
AUG.							
10...	1010	10.0	74	--	349	274	258
SEP.							
02...	1000	7.0	104	--	117	19	6.0
15281000 - KNIK RIVER NEAR PALMER (LAT 61 30 21 LONG 149 01 53)							
OCT., 1970							
13...	1230	3.0	180	--	2220	104	623
MAR., 1971							
09...	1300	.0	204	--	449	7	8.5
JULY							
21...	1530	.0	--	240	26700	--	--
SEP.							
09...	1130	3.5	--	160	10200	--	--
15283700 - MOOSE CREEK NEAR PALMER (LAT 61 40 00 LONG 149 02 50)							
AUG., 1971							
09...	2100	7.0	130	--	--	14200	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15267900 - RESURRECTION CREEK NEAR HOPE (LAT 60 53 40 LONG 149 38 13)											
DEC., 1970											
23...	--	--	--	--	--	--	--	--	--	--	--
APR., 1971											
09...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
15272550 - GLACIER CREEK AT GIRDWOOD (LAT 60 56 29 LONG 149 09 44)											
OCT., 1970											
15...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
01...	13	19	22	28	36	48	62	81	97	100	--
DEC.											
01...	--	--	--	--	--	--	--	--	--	--	--
FEB., 1971											
08...	--	--	--	--	--	--	--	--	--	--	--
APR.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
09...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
15...	--	--	--	--	--	--	--	--	--	--	--
15274600 - CAMPBELL CREEK NEAR SPENARD (LAT 61 08 17 LONG 149 55 20)											
OCT., 1970											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1971											
18...	--	--	--	--	--	--	--	--	--	--	--
JULY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	53	82	96	100	--	--
AUG.											
10...	--	--	--	--	--	47	75	92	99	100	--
SEP.											
02...	--	--	--	--	--	54	71	95	100	--	--
15281000 - KNIK RIVER NEAR PALMER (LAT 61 30 21 LONG 149 01 53)											
OCT., 1970											
13...	44	62	--	80	--	90	93	98	100	--	--
MAR., 1971											
09...	--	--	--	--	--	--	--	--	--	--	--
JULY											
21...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
09...	--	--	--	--	--	--	--	--	--	--	--
15283700 - MOOSE CREEK NEAR PALMER (LAT 61 40 00 LONG 149 02 50)											
AUG., 1971											
09...	12	19	26	36	49	60*	78*	93*	98*	100*	--

* Sieve analysis

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15290000 - LITTLE SUSITNA RIVER NEAR PALMER (LAT 61 42 32 LONG 149 13 36)							
OCT., 1970							
26...	1330	.0	97	--	94	3	.76
DEC.							
28...	1310	.0	128	--	43	1	.12
FEB., 1971							
23...	1230	.0	146	--	22	2	.12
MAR.							
25...	1200	.5	156	--	19	1	.05
APR.							
26...	1200	1.0	160	--	19	2	.10
MAY							
24...	1030	2.5	105	--	64	3	.52
JUNE							
25...	1530	8.5	42	--	1560	102	430
JULY							
26...	1100	6.0	49	--	367	16	16
15291500 - SUSITNA RIVER NEAR CANTWELL (LAT 62 41 57 LONG 147 32 40)							
JULY, 1971							
12...	1150	8.5	147	--	17200	1360	63200
AUG.							
17...	1215	10.0	147	--	17100	942	43500
15292400 - CHULITNA RIVER NEAR TALKEETNA (LAT 62 33 31 LONG 150 14 02)							
JULY, 1971							
03...	1050	6.0	136	--	25400	1560	107000
SEP.							
17...	1400	4.5	118	--	10100	466	12700
15292700 - TALKEETNA RIVER NEAR TALKEETNA (LAT 62 20 49 LONG 150 01 01) (Hydrologic bench-mark station)							
JAN., 1971							
06...	1330	.0	198	--	854	2	4.6
MAR.							
31...	1600	.0	242	--	416	2	2.2
JULY							
02...	1345	7.5	84	--	12900	263	9160
AUG.							
10...	1600	8.5	69	--	67900	3530	647000
11...	1900	9.5	99	--	32400	2000	175000
12...	1230	7.5	93	--	25600	2150	149000
14...	1100	7.0	90	--	20900	1390	78400
17...	1100	7.0	94	--	11400	466	14300
SEP.							
16...	1500	3.5	128	--	4890	34	449
29...	1500	3.0	128	--	3390	33	302
15292780 - SUSITNA RIVER AT SUNSHINE (LAT 62 10 35 LONG 150 10 18)							
JULY, 1971							
02...	1430	7.5	138	--	74600	1040	209000
02...	1700	7.5	131	--	74600	1140	230000
AUG.							
11...	1640	9.0	170	--	171000	3510	1620000
15292800 - MONTANA CREEK NEAR MONTANA (LAT 62 06 32 LONG 150 03 12)							
JULY, 1971							
01...	1530	7.0	24	--	2280	205	1260
AUG.							
09...	1630	9.5	24	--	3550	183	1750
SEP.							
17...	1630	8.5	43	--	376	2	2.0

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15290000 - LITTLE SUSITNA RIVER NEAR PALMER (LAT 61 42 32 LONG 149 13 36)											
OCT., 1970											
26...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
28...	--	--	--	--	--	--	--	--	--	--	--
FEB., 1971											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
25...	--	--	--	--	--	--	--	--	--	--	--
APR.											
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
24...	--	--	--	--	--	36*	50*	63*	77*	90*	100*
JUNE											
25...	--	--	--	--	--	--	--	--	--	--	--
JULY											
26...	--	--	--	--	--	--	--	--	--	--	--
15291500 - SUSITNA RIVER NEAR CANTWELL (LAT 62 41 57 LONG 147 32 40)											
JULY, 1971											
12...	23	32	36	46	58	69	79	91	98	100	--
AUG.											
17...	20	24	33	44	54	66	82	96	100	--	--
15292400 - CHULITNA RIVER NEAR TALKEETNA (LAT 62 33 31 LONG 150 14 02)											
JULY, 1971											
03...	27	37	42	49	57	64	70	82	98	100	--
SEP.											
17...	17	28	--	52	--	70	78	86	96	100	--
15292700 - TALKEETNA RIVER NEAR TALKEETNA (LAT 62 20 49 LONG 150 01 01) (Hydrologic bench-mark station)											
JAN., 1971											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
31...	--	--	--	--	--	--	--	--	--	--	--
JULY											
02...	--	--	--	--	--	34	52	80	100	--	--
AUG.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	15	23	--	46	--	81	94	100	--	--	--
12...	12	17	26	38	53	70	84	94	100	--	--
14...	8	13	--	33	--	66	80	92	100	--	--
17...	11	16	18	28	39	57	75	92	100	--	--
SEP.											
16...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
15292780 - SUSITNA RIVER AT SUNSHINE (LAT 62 10 35 LONG 150 10 18)											
JULY, 1971											
02...	21	29	32	39	48	57	69	89	99	100	--
02...	23	31	35	42	50	60	71	89	99	100	--
AUG.											
11...	17	23	33	46	61	76	87	96	100	--	--
15292800 - MONTANA CREEK NEAR MONTANA (LAT 62 06 32 LONG 150 03 12)											
JULY, 1971											
01...	--	--	--	--	--	24	45	68	96	100	--
AUG.											
09...	--	--	--	--	--	52	75	92	100	--	--
SEP.											
17...	--	--	--	--	--	--	--	--	--	--	--

* Sieve analysis.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15294500 - CHAKACHATNA RIVER NEAR TYONEK (LAT 61 12 44 LONG 152 21 26)							
JULY, 1971							
06...	1200	3.5	66	--	13100	36	1270
29...	1430	5.0	65	--	9890	80	2140
SEP.							
08...	--	--	62	--	5740	87	1350
15296000 - UGANIK RIVER NEAR KODIAK (LAT 57 41 29 LONG 153 25 10)							
JAN., 1971							
06...	1130	.0	52	--	276	2	1.5
MAY							
26...	1250	5.5	53	--	760	3	6.2
JULY							
21...	1130	7.0	37	--	2460	8	53
15297200 - MYRTLE CREEK NEAR KODIAK (LAT 57 36 16 LONG 152 24 09)							
OCT., 1970							
13...	1350	7.0	43	--	22	1	.06
NOV.							
10...	1250	4.5	49	--	186	3	1.5
11...	1100	4.5	41	--	248	9	6.0
JAN., 1971							
05...	1320	1.0	41	--	51	1	.14
MAR.							
18...	1100	.5	60	--	3.8	1	.01
MAY							
25...	1310	.5	30	--	301	94	76
JULY							
21...	1745	6.5	26	--	221	31	18
SEP.							
08...	1030	7.0	37	--	54	3	.44
15297900 - ESKIMO CREEK AT KING SALMON (LAT 58 41 08 LONG 156 40 08)							
JULY, 1971							
07...	1800	9.5	95	--	9.4	22	.56
AUG.							
17...	1530	10.0	64	--	52	54	7.6
SEP.							
17...	1420	6.5	77	--	19	13	.67
15300500 - KVICHAK RIVER AT IGIUGIG (LAT 59 19 44 LONG 155 53 57)							
AUG., 1971							
17...	1830	.0	43	1	37200	--	--
15302000 - NUYAKUK RIVER NEAR DILLINGHAM (LAT 59 56 04 LONG 158 11 05)							
JULY, 1971							
08...	1400	11.0	59	--	18300	9	445
AUG.							
17...	1020	9.5	63	--	12500	2	67
SEP.							
18...	0930	6.0	69	0	6330	2	34
15303010 - SILVER SALMON CREEK NEAR ALEKNAGIK (LAT 59 14 34 LONG 158 40 21)							
JULY, 1971							
07...	2115	11.0	45	--	12	2	.06
AUG.							
17...	1200	6.5	40	--	38	5	.51
SEP.							
17...	1630	6.0	43	1	14	3	.11

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15294500 - CHAKACHATNA RIVER NEAR TYONEK (LAT 61 12 44 LONG 152 21 26)											
JULY, 1971											
06...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
08...	--	--	--	--	--	--	--	--	--	--	--
15296000 - UGANIK RIVER NEAR KODIAK (LAT 57 41 29 LONG 153 25 10)											
JAN., 1971											
06...	--	--	--	--	--	--	--	--	--	--	--
MAY											
26...	--	--	--	--	--	--	--	--	--	--	--
JULY											
21...	--	--	--	--	--	--	--	--	--	--	--
15297200 - MYRTLE CREEK NEAR KODIAK (LAT 57 36 16 LONG 152 24 09)											
OCT., 1970											
13...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1971											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
18...	--	--	--	--	--	--	--	--	--	--	--
MAY											
25...	--	--	--	--	--	42	67	93	100	--	--
JULY											
21...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
08...	--	--	--	--	--	--	--	--	--	--	--
15297900 - ESKIMO CREEK AT KING SALMON (LAT 58 41 08 LONG 156 40 08)											
JULY, 1971											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
17...	--	--	--	--	--	--	--	--	--	--	--
15300500 - KVICHAK RIVER AT IGIUGIG (LAT 59 19 44 LONG 155 53 57)											
AUG., 1971											
17...	--	--	--	--	--	--	--	--	--	--	--
15302000 - NUYAKUK RIVER NEAR DILLINGHAM (LAT 59 56 04 LONG 158 11 05)											
JULY, 1971											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
18...	--	--	--	--	--	--	--	--	--	--	--
15303010 - SILVER SALMON CREEK NEAR ALEKNAGIK (LAT 59 14 34 LONG 158 40 21)											
JULY, 1971											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
17...	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15303600 - KUSKOKWIM RIVER AT MC GRATH (LAT 62 57 10 LONG 155 35 11)							
MAR., 1971							
19...	1130	1.0	346	--	3950	10	107
JULY							
09...	1435	.0	268	--	26600	406	29200
AUG.							
15...	1900	13.0	252	--	65200	1020	180000
SEP.							
25...	1130	5.0	312	2	13500	149	5430
15304000 - KUSKOKWIM RIVER AT CROOKED CREEK (LAT 61 52 10 LONG 158 06 42)							
MAR., 1971							
23...	1630	.0	254	--	9490	4	102
JULY							
08...	2130	13.5	187	--	69100	252	47000
AUG.							
16...	--	12.5	198	--		880	380000
SEP.							
18...	1400	7.0	214	3	43400	214	25100
15305950 - TAYLOR CREEK NEAR CHICKEN (LAT 63 54 27 LONG 142 12 58)							
JUNE, 1971							
18...	1200	8.5	44	--	1.8	17	.08
15356000 - YUKON RIVER AT EAGLE (LAT 64 47 22 LONG 141 11 52)							
JUNE, 1971							
19...	2045	13.0	--	35		--	--
15389000 - PORCUPINE RIVER NEAR FORT YUKON (LAT 66 59 26 LONG 143 08 16)							
JUNE, 1971							
24...	1800	19.0	155	--	31300	13	1100
AUG.							
11...	1730	8.5	172	--	21200	39	2230
15389500 - CHANDALAR RIVER NEAR VENETIE (LAT 67 05 49 LONG 147 11 04)							
JUNE, 1971							
25...	1800	16.5	168	--	47500	434	55700
AUG.							
12...	1010	10.9	229	--	5350	7	101
SEP.							
10...	1300	4.0	184	--	4480	3	36
15439800 - BOULDER CREEK NEAR CENTRAL (LAT 65 34 05 LONG 144 53 13)							
MAY , 1971							
19...	1730	.0	49	--	204	67	37
15478000 - TANANA RIVER AT BIG DELTA (LAT 64 09 20 LONG 145 51 00)							
JUNE, 1971							
24...	2000	14.0	210	--	27700	1440	108000
JULY							
16...	1600	10.0	218	--	46000	4410	548000

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15303600 - KUSKOKWIM RIVER AT MC GRATH (LAT 62 57 10 LONG 155 35 11)											
MAR., 1971											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
09...	20	25	32	41	51	69	89	99	100	--	--
AUG.											
15...	14	21	30	40	50	71	90	98	100	--	--
SEP.											
25...	--	--	--	--	--	26	52	100	--	--	--
15304000 - KUSKOKWIM RIVER AT CROOKED CREEK (LAT 61 52 10 LONG 158 06 42)											
MAR., 1971											
23...	--	--	--	--	--	--	--	--	--	--	--
JULY											
08...	22	34	37	50	62	76	86	96	99	100	--
AUG.											
16...	19	26	29	37	48	60	68	72	99	100	--
SEP.											
18...	--	--	--	--	--	--	--	--	--	--	--
15305950 - TAYLOR CREEK NEAR CHICKEN (LAT 63 54 27 LONG 142 12 58)											
JUNE, 1971											
18...	--	--	--	--	--	--	--	--	--	--	--
15356000 - YUKON RIVER AT EAGLE (LAT 64 47 22 LONG 141 11 52)											
JUNE, 1971											
19...	--	--	--	--	--	--	--	--	--	--	--
15389000 - PORCUPINE RIVER NEAR FORT YUKON (LAT 66 59 26 LONG 143 08 16)											
JUNE, 1971											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
11...	--	--	--	--	--	--	--	--	--	--	--
15389500 - CHANDALAR RIVER NEAR VENETIE (LAT 67 05 49 LONG 147 11 04)											
JUNE, 1971											
25...	31	46	--	79	--	92	96	99	100	--	--
AUG.											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	--	--	--	--	--	--	--	--	--	--	--
15439800 - BOULDER CREEK NEAR CENTRAL (LAT 65 34 05 LONG 144 53 13)											
MAY , 1971											
19...	--	--	--	--	--	--	--	--	--	--	--
15478000 - TANANA RIVER AT BIG DELTA (LAT 64 09 20 LONG 145 51 00)											
JUNE, 1971											
24...	23	30	36	53	66	77	89	99	100	--	--
JULY											
16...	20	28	40	55	70	83	94	99	100	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15484000 - SALCHA RIVER NEAR SALCHAKET (LAT 64 28 22 LONG 146 55 26)							
MAY , 1971							
20...	--	4.0	57	--	10700	380	11000
JUNE							
30...	1530	11.0	110	--	1850	5	25
JULY							
22...	--	12.0	118	--	2090	7	40
AUG.							
24...	1325	10.5	135	--	2660	3	22
SEP.							
29...	1300	4.0	154	--	1540	7	29
15493000 - CHENA RIVER NEAR TWO RIVERS (LAT 64 53 55 LONG 146 24 42)							
MAY , 1971							
20...	1400	4.0	61	--	7540	214	4360
15514500 - WOOD RIVER NEAR FAIRBANKS (LAT 64 26 06 LONG 148 12 46)							
APR., 1971							
23...	1200	.0	212	--	156	21	8.8
JUNE							
05...	0200	11.5	256	--	413	400	446
AUG.							
31...	1500	9.5	302	--	804	4870	10600
15515500 - TANANA RIVER AT NENANA (LAT 64 33 55 LONG 149 05 30)							
FEB., 1971							
11...	1500	.0	295	--	6190	29	485
JUNE							
10...	--	15.0	--	120	64900	--	--
JULY							
13...	1600	15.0	--	340	54900	--	--
16...	1410	12.5	--	120	94400	--	--
AUG.							
17...	1610	12.5	--	360	68800	--	--
SEP.							
30...	1700	3.5	--	4	22100	--	--
15515800 - SEATTLE CREEK NEAR CANTWELL (LAT 63 19 32 LONG 148 14 49)							
JUNE, 1971							
05...	1430	3.5	33	--	358	250	242
JULY							
13...	1645	9.5	81	--	52	3	.42
AUG.							
20...	1130	8.0	79	--	110	25	7.4
15518350 - TEKLANIKA RIVER NEAR LIGNITE (LAT 63 55 14 LONG 149 29 51)							
APR., 1971							
28...	1500	2.0	345	--	208	32	18
JUNE							
03...	1335	6.5	225	--	1010	65	177
AUG.							
31...	1100	7.0	333	--	1020	33	91
SEP.							
30...	1700	3.5	244	4	22100	--	--
15519000 - BRIDGE CREEK NEAR LIVENGOOD (LAT 65 27 52 LONG 148 15 10)							
AUG., 1971							
12...	--	4.5	39	--	30	95	7.7

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15484000 - SALCHA RIVER NEAR SALCHAKET (LAT 64 28 22 LONG 146 55 26)											
MAY , 1971											
20...	5	10	12	21	38	61	78	94	100	--	--
JUNE											
30...	--	--	--	--	--	--	--	--	--	--	--
JULY											
22...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
24...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
29...	--	--	--	--	--	--	--	--	--	--	--
15493000 - CHENA RIVER NEAR TWO RIVERS (LAT 64 53 55 LONG 146 24 42)											
MAY , 1971											
20...	--	--	--	--	--	52	79	94	100	--	--
15514500 - WOOD RIVER NEAR FAIRBANKS (LAT 64 26 06 LONG 148 12 46)											
APR., 1971											
23...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	--	--	--	--	--	15*	23*	37*	75*	92*	99*
AUG.											
31...	--	--	--	--	--	2*	4*	18*	74*	98*	100*
15515500 - TANANA RIVER AT NENANA (LAT 64 33 55 LONG 149 05 30)											
FEB., 1971											
11...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	--	--	--	--	--	--	--	--	--	--	--
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
30...	--	--	--	--	--	--	--	--	--	--	--
15515800 - SEATTLE CREEK NEAR CANTWELL (LAT 63 19 32 LONG 148 14 49)											
JUNE, 1971											
05...	--	--	--	--	--	53*	68*	78*	88*	94*	98*
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
20...	--	--	--	--	--	--	--	--	--	--	--
15518350 - TEKLANIKA RIVER NEAR LIGNITE (LAT 63 55 14 LONG 149 29 51)											
APR., 1971											
28...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
03...	--	--	--	--	--	57	66	83	100	--	--
AUG.											
31...	--	--	--	--	--	56	65	84	100	--	--
SEP.											
30...	--	--	--	--	--	--	--	--	--	--	--
15519000 - BRIDGE CREEK NEAR LIVENGOOD (LAT 65 27 52 LONG 148 15 10)											
AUG., 1971											
12...	--	--	--	--	--	--	--	--	--	--	--

* Sieve analysis.

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15534900 - POKER CREEK NEAR CHATANIKA (LAT 65 09 32 LONG 147 28 49)							
SEP., 1971							
07...	1615	5.5	106	--	28	4	.30
15535000 - CARIBOU CREEK NEAR CHATANIKA (LAT 65 04 00 LONG 147 33 05)							
APR., 1971							
14...	1200	.0	94	--	1.6	3	.01
MAY							
05...	1500	.0	43	--	5.0	16	.22
JUNE							
08...	1510	5.5	53	--	16	18	.78
JULY							
13...	1220	3.5	48	--	23	21	1.3
AUG.							
10...	1210	4.0	38	--	38	24	2.5
SEP.							
07...	1705	4.0	64	--	12	5	.16
15564600 - MELOZITNA RIVER NEAR RUBY (LAT 64 47 34 LONG 155 33 39)							
MAR., 1971							
20...	1145	.5	139	--	20	2	.11
JUNE							
10...	1130	9.5	29	15	12400	69	2310
JULY							
14...	1300	10.0	54	--	4800	27	350
SEP.							
24...	1300	5.0	75	0	1790	27	130
15564877 - WISEMAN CREEK AT WISEMAN (LAT 67 24 40 LONG 150 06 00)							
MAY , 1971							
22...	0945	1.5	90	--	204	62	34
JUNE							
12...	1630	10.0	121	--	66	8	1.4
JULY							
27...	0915	10.5	271	--	19	2	.10
SEP.							
08...	1720	5.0	319	--	16	3	.13
15564900 - KOYUKUK RIVER AT HUGHES (LAT 66 02 51 LONG 154 15 30)							
MAR., 1971							
20...	1530	.0	342	--	532	2	2.9
JUNE							
10...	1930	10.5	--	190	106000	787	225000
JULY							
13...	0200	14.5	214	--	9400	23	584
AUG.							
12...	1545	14.0	177	--	13700	11	407
SEP.							
21...	1540	6.5	222	--	7950	20	429
15621000 - SNAKE RIVER NEAR NOME (LAT 64 33 51 LONG 165 30 26)							
JUNE, 1971							
13...	0215	3.5	74	--	1570	44	187
JULY							
10...	--	.0	--	1	160	--	--
AUG.							
13...	1800	.0	201	1	63	--	--
SEP.							
19...	0920	5.0	209	0	47	--	--
15625000 - ARCTIC CREEK NEAR NOME (LAT 64 38 15 LONG 165 42 45)							
SEP., 1971							
19...	1010	4.0	201	--	.	1	.00

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15534900 - POKER CREEK NEAR CHATANIKA (LAT 65 09 32 LONG 147 28 49)											
SEP., 1971											
07...	--	--	--	--	--	--	--	--	--	--	--
15535000 - CARIBOU CREEK NEAR CHATANIKA (LAT 65 04 00 LONG 147 33 05)											
APR., 1971											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
08...	--	--	--	--	--	--	--	--	--	--	--
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
10...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
07...	--	--	--	--	--	--	--	--	--	--	--
15564600 - MELOZITNA RIVER NEAR RUBY (LAT 64 47 34 LONG 155 33 39)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	--	--	--	--	--	--	--	--	--	--	--
JULY											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
15564877 - WISEMAN CREEK AT WISEMAN (LAT 67 24 40 LONG 150 06 00)											
MAY , 1971											
22...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	--	--	--	--	--	--	--	--	--
JULY											
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
08...	--	--	--	--	--	--	--	--	--	--	--
15564900 - KOYUKUK RIVER AT HUGHES (LAT 66 02 51 LONG 154 15 30)											
MAR., 1971											
20...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	18	29	47	64	78	88	95	99	100	--	--
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
21...	--	--	--	--	--	--	--	--	--	--	--
15621000 - SNAKE RIVER NEAR NOME (LAT 64 33 51 LONG 165 30 26)											
JUNE, 1971											
13...	--	--	--	--	--	72	87	100	--	--	--
JULY											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
19...	--	--	--	--	--	--	--	--	--	--	--
15625000 - ARCTIC CREEK NEAR NOME (LAT 64 38 15 LONG 165 42 45)											
SEP., 1971											
19...	--	--	--	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAP OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
ALASKA WEST OF LONGITUDE 141°--Continued							
15633000 - WASHINGTON CREEK NEAR NOME (LAT 64 42 50 LONG 165 49 15)							
JULY, 1971							
10...	1000	10.5	174	--	0	64	.01
AUG.							
14...	1000	--	315	--	0	4	.00
15712000 - KUZITRIN RIVER NEAR NOME (LAT 65 13 17 LONG 164 37 15)							
JUNE, 1971							
12...	1600	5.0	--	10	9190	37	918
AUG.							
14...	1245	.0	159	1	325	--	--
SEP.							
19...	1400	6.5	156	0	304	--	--
15744000 - KOBUK RIVER AT AMBLER (LAT 67 05 13 LONG 157 50 51)							
MAR., 1971							
21...	1145	.0	198	--	920	2	5.0
JUNE							
11...	1145	9.0	--	20	67100	104	18800
AUG.							
12...	1830	.0	--	1	8010	--	--
SEP.							
21...	1250	5.0	182	0	6240	14	236
15746000 - NOATAK RIVER AT NOATAK (LAT 67 34 18 LONG 162 56 38)							
JUNE, 1971							
11...	2030	9.0	127	65		279	92700
15896700 - PUTULIGAYUK RIVER NEAR DEADHORSE (LAT 70 16 08 LONG 148 37 11)							
JUNE, 1971							
03...	1415	.5	144	--	58	46	7.2
06...	1445	--	131	--	4700	65	825
23...	--	13.5	206	--	53	6	.86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SUSPENDED SEDIMENT ANALYSES, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
ALASKA WEST OF LONGITUDE 141°--Continued											
15633000 - WASHINGTON CREEK NEAR NOME (LAT 64 42 50 LONG 165 49 15)											
JULY, 1971											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	--	--	--	--	--	--	--	--	--
15712000 - KUZITRIN RIVER NEAR NOME (LAT 65 13 17 LONG 164 37 15)											
JUNE, 1971											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
19...	--	--	--	--	--	--	--	--	--	--	--
15744000 - KOBUK RIVER AT AMBLER (LAT 67 05 13 LONG 157 50 51)											
MAR., 1971											
21...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
21...	--	--	--	--	--	--	--	--	--	--	--
15746000 - NOATAK RIVER AT NOATAK (LAT 67 34 18 LONG 162 56 38)											
JUNE, 1971											
11...	19	28	33	44	58	70	87	100	--	--	--
15896700 - PUTULIGAYUK RIVER NEAR DEADHORSE (LAT 70 16 08 LONG 148 37 11)											
JUNE, 1971											
03...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	39	58	79	100	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

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Figure 1.-- Locations of stations in Alaska.

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